


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING				FORM 3 AMENDED REPORT <input checked="" type="checkbox"/>		
APPLICATION FOR PERMIT TO DRILL				1. WELL NAME and NUMBER NBU 921-35A4CS		
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT NATURAL BUTTES		
4. TYPE OF WELL Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>				5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				7. OPERATOR PHONE 720 929-6007		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				9. OPERATOR E-MAIL Kathy.SchneebeckDulnoan@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML 22582		11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	524 FNL 445 FEL	NENE	35	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	1079 FNL 494 FEL	NENE	35	9.0 S	21.0 E	S
At Total Depth	1079 FNL 494 FEL	NENE	35	9.0 S	21.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 494		23. NUMBER OF ACRES IN DRILLING UNIT 321		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 574		26. PROPOSED DEPTH MD: 9646 TVD: 9587		
27. ELEVATION - GROUND LEVEL 4490		28. BOND NUMBER 22013542		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		
ATTACHMENTS						
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES						
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER			<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN			
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)			<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER			
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)			<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP			
NAME Danielle Piernot		TITLE Regulatory Analyst		PHONE 720 929-6156		
SIGNATURE		DATE 11/18/2010		EMAIL gnbregulatory@anadarko.com		
API NUMBER ASSIGNED 43047513400000		APPROVAL  Permit Manager				

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9646		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttruss	9646	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	2310		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2310	28.0			

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 921-35A4CS**

Surface:	524 FNL / 445 FEL	NENE
BHL:	1079 FNL / 494 FEL	NENE

Section 35 T9S R21E

Unitah County, Utah
Mineral Lease: UT ST ML 22582**ONSHORE ORDER NO. 1****DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1367	
Birds Nest	1686	Water
Mahogany	2064	Water
Wasatch	4652	Gas
Mesaverde	7322	Gas
MVU2	8270	Gas
MVL1	8857	Gas
TVD	9587	
TD	9646	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 9,587' TVD, approximately equals 5,873 psi (calculated at 0.61 psi/foot).

Maximum anticipated surface pressure equals approximately 3,764 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:**9. Variances:**

*Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance*

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 11 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie

line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations. 4 of 12

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP				DATE	November 18, 2010	
WELL NAME	NBU 921-35A4CS				TD	9,587'	9,646' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	4,990'
SURFACE LOCATION	NENE	524 FNL	445 FEL	Sec 35	T 9S	R 21E	
	Latitude:	39.998344	Longitude:	-109.510385		NAD 27	
BTM HOLE LOCATION	NENE	1079 FNL	494 FEL	Sec 35	T 9S	R 21E	
	Latitude:	39.996822	Longitude:	-109.510557		NAD 27	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.						

NBU 921-35A Directional Program Template.xls



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,310	28.00	IJ-55	LTC	0.87	1.74	5.33
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 9,646	11.60	I-80	BTC	2.01	1.06	2.85

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.33

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 12.0 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoys.Fact. of water)

MASP 3,764 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 12.0 ppg)

0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoys.Fact. of water)

MABHP 5,873 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
			+ 0.25 pps flocele				
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2							
	LEAD	1,810'	65/35 Poz + 6% Gel + 10 pps gilsonite	170	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,146'	Premium Lite II +0.25 pps	300	10%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,500'	50/50 Poz/G + 10% salt + 2% gel	1,060	10%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

John Huycke / Emile Goodwin

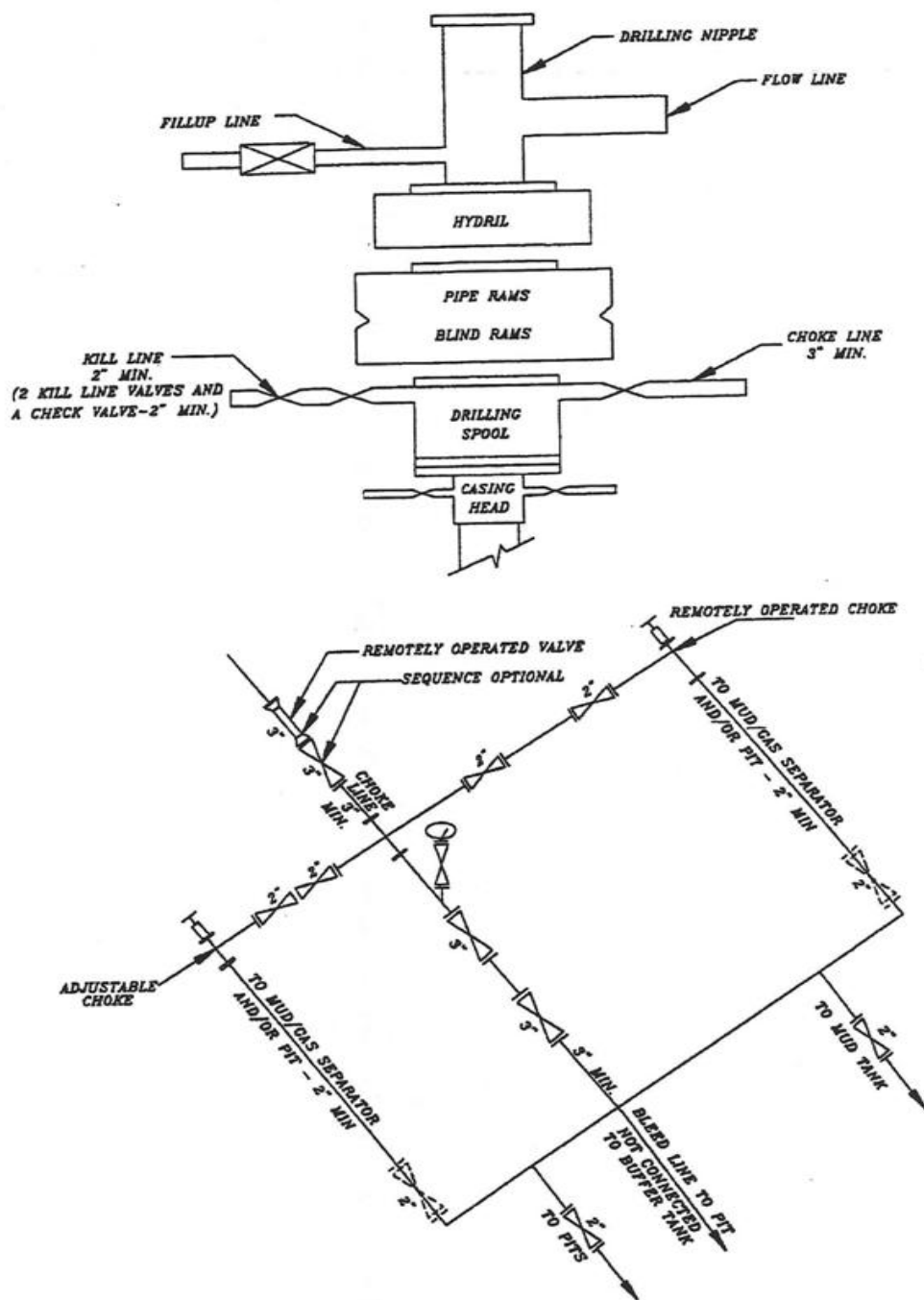
DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

DATE:

EXHIBIT A
NBU 921-35A4CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

T9S, R21E, S.L.B.&M.

WEST - 80.00 (G.L.O.)

N89°47'37"W - 2646.18' (Meas.)

N89°47'25"W - 2645.99' (Meas.)

Found 1" Aluminum Cap on 5/8" Rebar. Pile of Stones.

Found Uintah County Aluminum Cap in Pile of Stones.

Found Uintah County Aluminum Cap in Pile of Stones.

Well Surface Position

Bottom of Hole

**WELL LOCATION:
NBU 921-35A4CS**

ELEV. UNGRADED GROUND = 4990.4'

35

NBU 921-35A4CS (Surface Position)

NAD 83 LATITUDE = 39.998309° (39° 59' 53.912")

LONGITUDE = 109.511072° (109° 30' 39.860")

NAD 27 LATITUDE = 39.998344° (39° 59' 54.038")

LONGITUDE = 109.510385° (109° 30' 37.387")

NBU 921-35A4CS (Bottom Hole)

NAD 83 LATITUDE = 39.996787° (39° 59' 48.434")

LONGITUDE = 109.511244° (109° 30' 40.477")

NAD 27 LATITUDE = 39.996822° (39° 59' 48.561")

LONGITUDE = 109.510557° (109° 30' 38.005")

LOT 4

LOT 1

LOT 3

LOT 2

2.50 (G.L.O.)
164.44'

Found 1977 Brass Cap in Pile of Stones.

2501.71'

S89°07'53"W - 2666.15' (Meas.)

S89°06'W - 40.39 (G.L.O.)

Found 1977 Brass Cap in Pile of Stones.

2.19 (G.L.O.)
144.58'

Found 1977 Brass Cap

2543.51'

S89°14'29"W - 2688.09' (Meas.)

S89°12'W - 40.73 (G.L.O.)

Found 1977 Brass Cap

1.51 (G.L.O.)
99.10'

Found 1977 Brass Cap

Found 1977 Brass Cap

2579.41'

2678.51' (Meas.)

S89°06'03"W

S89°06'W - 40.59 (G.L.O.)

Found 1977 Brass Cap in Pile of Stones.

NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.

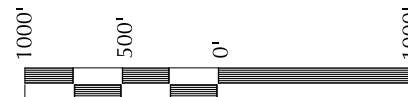
2. G.L.O. distances are shown in feet or chains.

1 chain = 66 feet.

3. The Bottom of hole bears S04°59'17"W 556.53' from the Surface Position.

4. Bearings are based on Global Positioning Satellite observations.

5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



SCALE

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

 PROFESSIONAL LAND SURVEYOR
 REGISTRATION NO. 6028691
 STATE OF UTAH
Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 921-35A**NBU 921-35A4CS****WELL PLAT****1079' FNL, 494' FEL (Bottom Hole)****NE ¼ NE ¼ OF SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH.****CONSULTING, LLC**2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182**TIMBERLINE**

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.

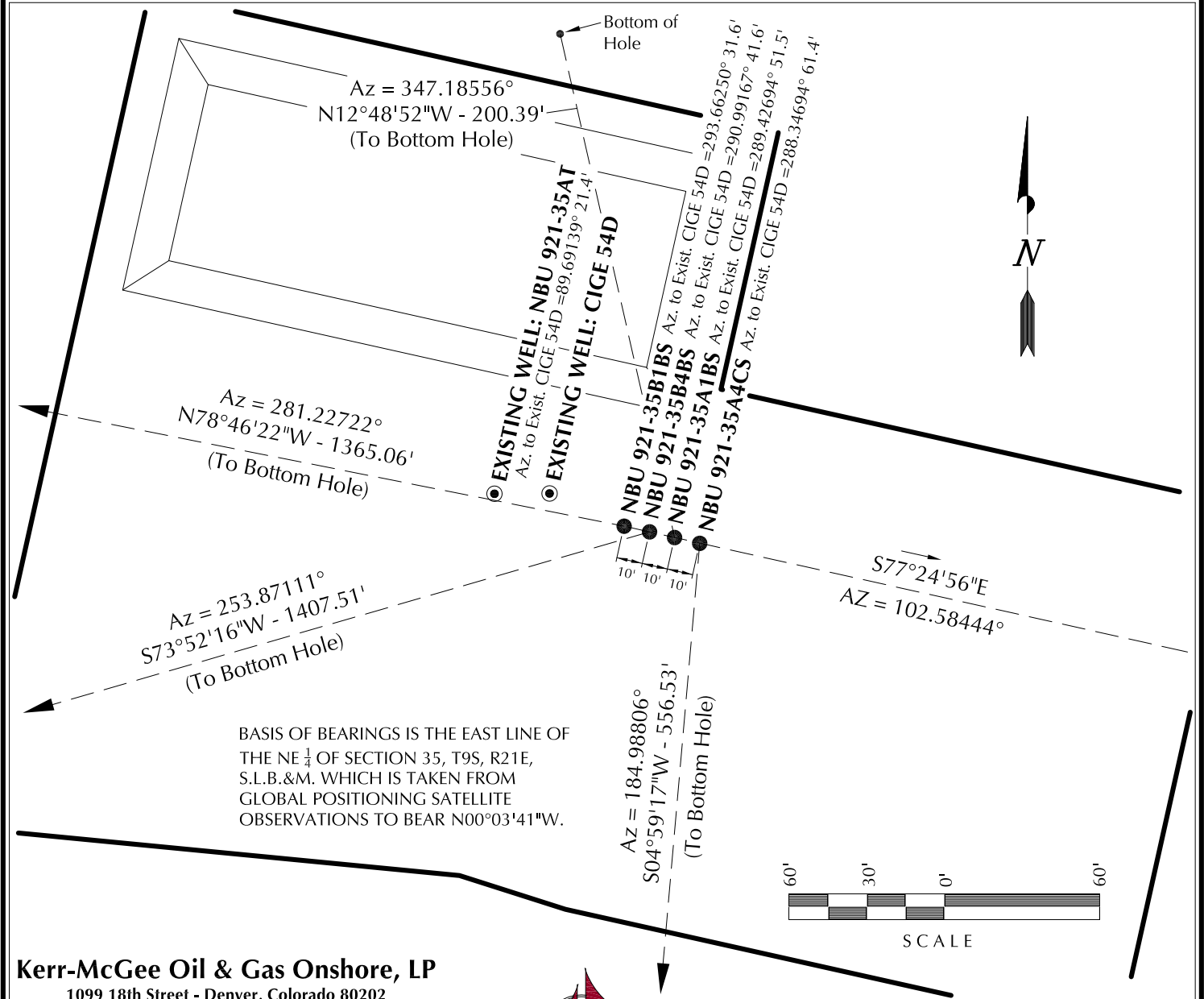
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 09-30-10	SURVEYED BY: M.S.B.	SHEET NO: 1 1 OF 16
DATE DRAWN: 10-04-10	DRAWN BY: K.H.G.	
SCALE: 1" = 1000'	Date Last Revised:	

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 921-35A4CS	39°59'53.912" 39.998309°	109°30'39.860" 109.511072°	39°59'54.038" 39.998344°	109°30'37.387" 109.510385°	524' FNL 445' FEL	39°59'48.434" 39.996787°	109°30'40.477" 109.511244°	39°59'48.561" 39.996822°	109°30'38.005" 109.510557°	1079' FNL 494' FEL
NBU 921-35A1BS	39°59'53.934" 39.998315°	109°30'39.985" 109.511107°	39°59'54.060" 39.998350°	109°30'37.512" 109.510420°	522' FNL 455' FEL	39°59'55.864" 39.998851°	109°30'40.557" 109.511266°	39°59'55.990" 39.998886°	109°30'38.084" 109.510579°	327' FNL 499' FEL
NBU 921-35B4BS	39°59'53.956" 39.998321°	109°30'40.110" 109.511142°	39°59'54.082" 39.998356°	109°30'37.637" 109.510455°	520' FNL 464' FEL	39°59'50.085" 39.997246°	109°30'57.476" 109.515966°	39°59'50.212" 39.997281°	109°30'55.003" 109.515279°	916' FNL 1817' FEL
NBU 921-35B1BS	39°59'53.978" 39.998327°	109°30'40.237" 109.511177°	39°59'54.104" 39.998362°	109°30'37.764" 109.510490°	518' FNL 474' FEL	39°59'56.596" 39.999054°	109°30'57.439" 109.515955°	39°59'56.722" 39.999090°	109°30'54.965" 109.515268°	257' FNL 1813' FEL
CIGE 54D	39°59'54.103" 39.998362°	109°30'40.609" 109.511280°	39°59'54.229" 39.998397°	109°30'38.136" 109.510593°	505' FNL 503' FEL					
NBU 921-35AT	39°59'54.102" 39.998362°	109°30'40.883" 109.511356°	39°59'54.228" 39.998397°	109°30'38.410" 109.510669°	505' FNL 525' FEL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 921-35A4CS	-554.4'	-48.4'	NBU 921-35A1BS	195.4'	-44.4'	NBU 921-35B4BS	-391.0'	-1352.1'	NBU 921-35B1BS	265.8'	-1338.9'



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35A

WELL PAD INTERFERENCE PLAT
WELLS - NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH.



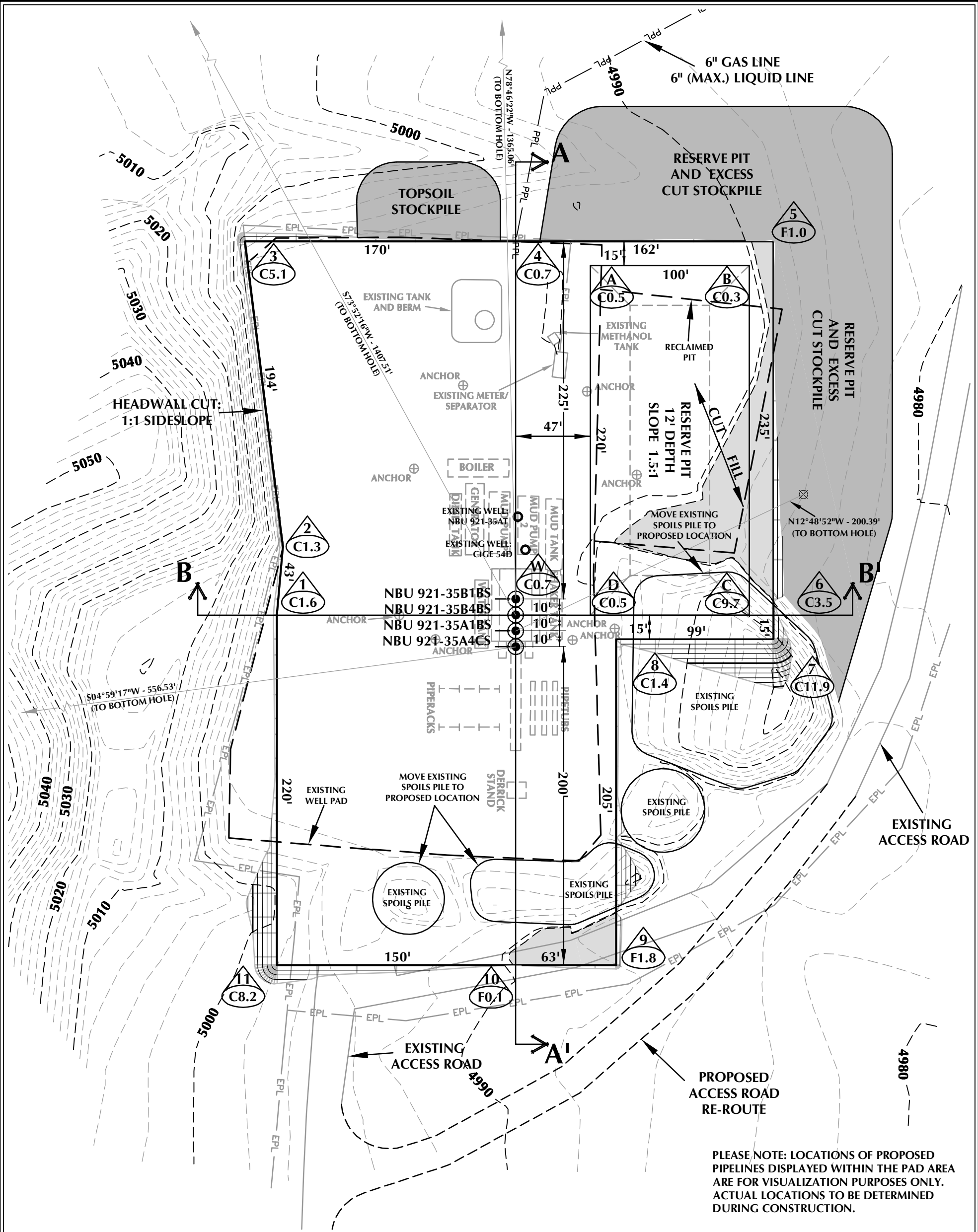
CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 09-30-10	SURVEYED BY: M.S.B.	SHEET NO: 5 5 OF 16
DATE DRAWN: 10-04-10	DRAWN BY: K.H.G.	
SCALE: 1" = 60'	Date Last Revised: 12-03-10 M.W.W.	



PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

WELL PAD - NBU 921-35A DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4990.5'
FINISHED GRADE ELEVATION = 4989.8'
CUT SLOPES = VARIES
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 2.99 ACRES
TOTAL DAMAGE AREA = 6.13 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35A

WELL PAD - LOCATION LAYOUT
NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 7,340 C.Y.
TOTAL FILL FOR WELL PAD = 525 C.Y.
TOPSOIL @ 6" DEPTH = 941 C.Y.
EXCESS MATERIAL = 6,815 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 7,410 CY
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 28,150 BARRELS

WELL PAD LEGEND

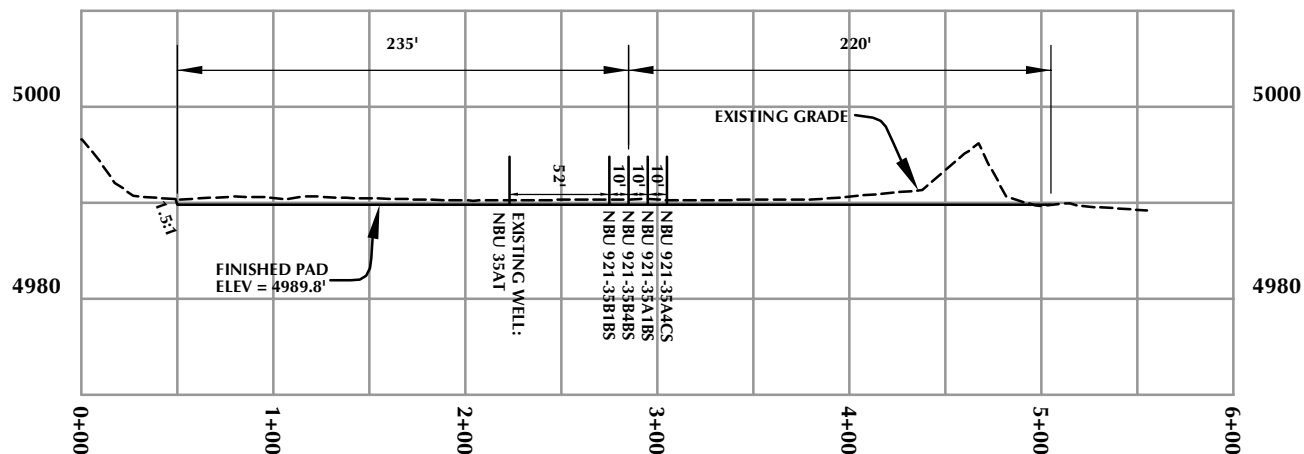
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE



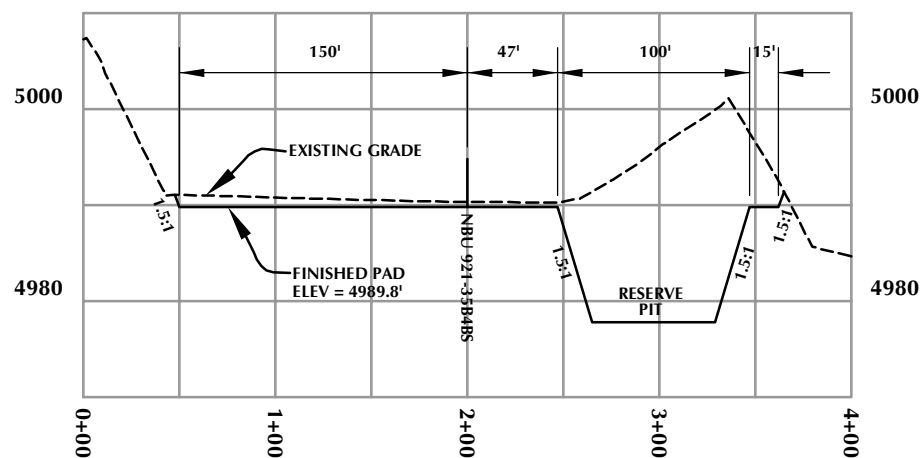
HORIZONTAL 0 30 60 1" = 60'
2' CONTOURS

Scale: 1"=60' Date: 10/18/10 SHEET NO: 6 OF 16
REVISED: JFE 12/9/10

TIMBERLINE ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078
(435) 789-1365



CROSS SECTION A-A'



CROSS SECTION B-B'

NOTE: CROSS SECTION B-B' DEPICTS
MAXIMUM RESERVE PIT DEPTH.

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35A

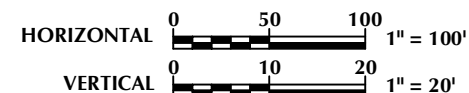
WELL PAD - CROSS SECTIONS
NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365



Scale: 1"=100'

Date: 10/15/10

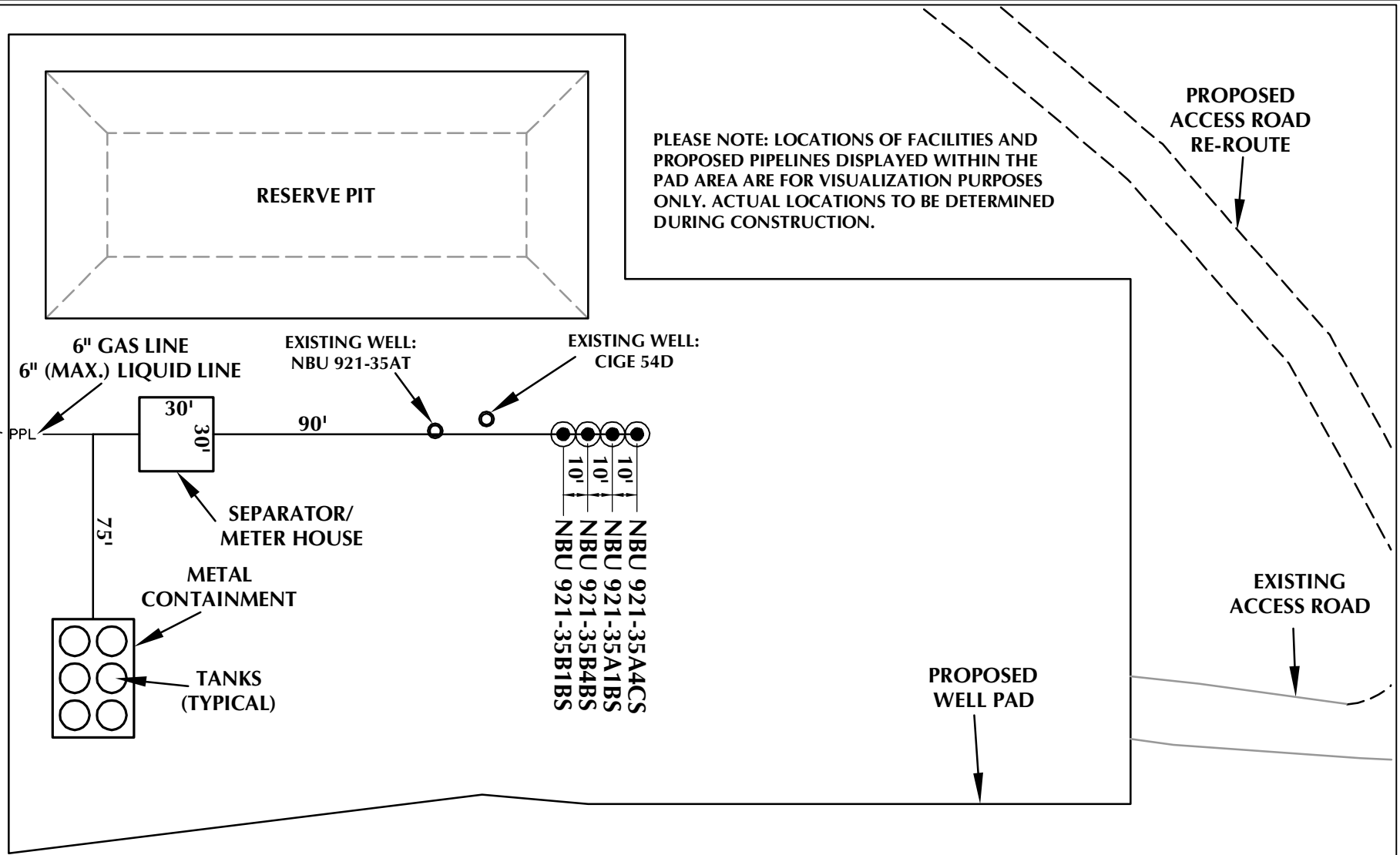
SHEET NO:

7

7 OF 16

REVISED:

'APIWELLNo:43047513400000'
K:\ANADARKO\2010_53_NBU_FOCUS_SEC_921-35\DWG\NBU 921-35A\NBU 921-35A_PAD_20101209.dwg, 12/3/2010 9:16:25 AM



PLEASE NOTE: LOCATIONS OF FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35A
WELL PAD - FACILITIES DIAGRAM NBU 921-35A4CS, NBU 921-35A1BS, NBU 921-35B4BS & NBU 921-35B1BS LOCATED IN SECTION 35, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL PROPOSED PIPELINE
- EPL EXISTING PIPELINE



HORIZONTAL 0 30' 60' 1" = 60'

TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

Scale: 1"=60'	Date: 10/15/10
REVISED:	JFE 12/9/10

SHEET NO:
8
8 OF 16

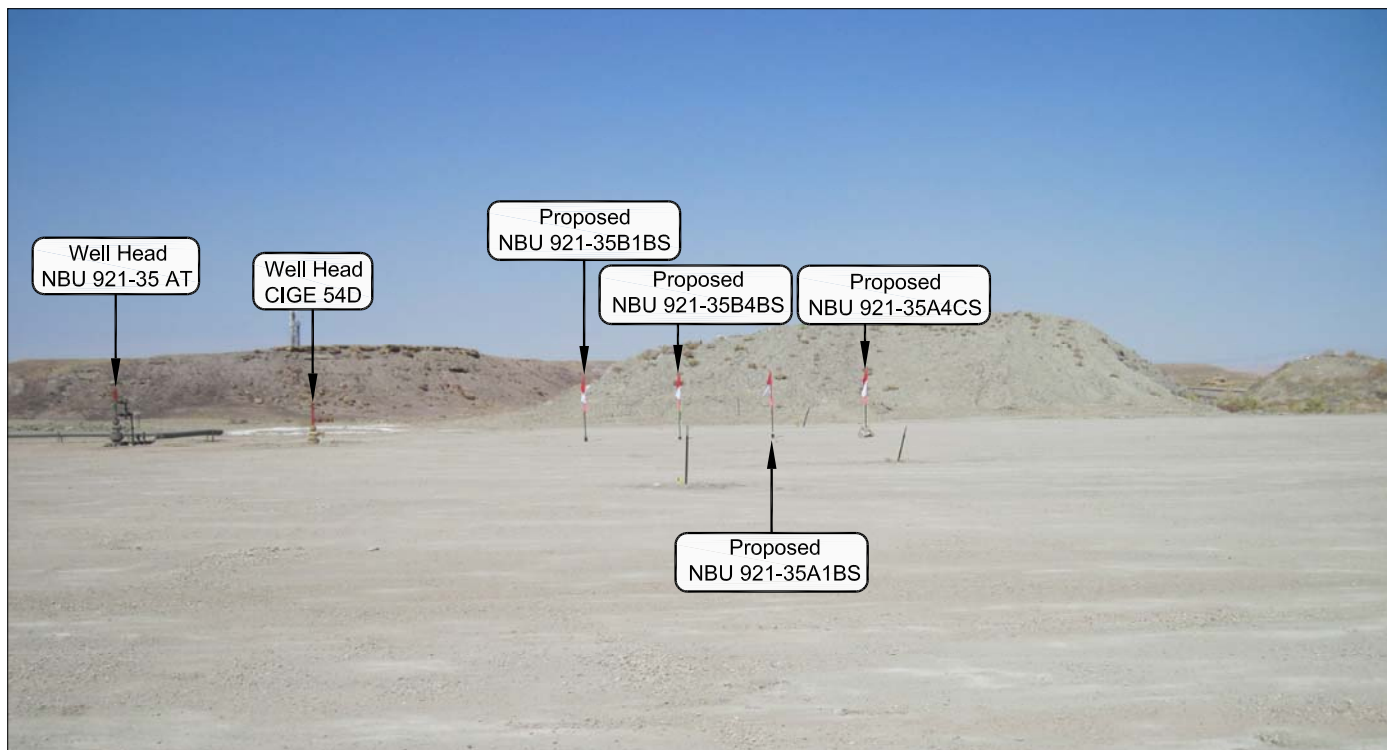


PHOTO VIEW: FROM CORNER 1 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-35A

LOCATION PHOTOS

NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH.



CONSULTING, LLC
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Sheridan WY 82801
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Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN:
09-30-10

PHOTOS TAKEN BY: M.S.B.

SHEET NO:

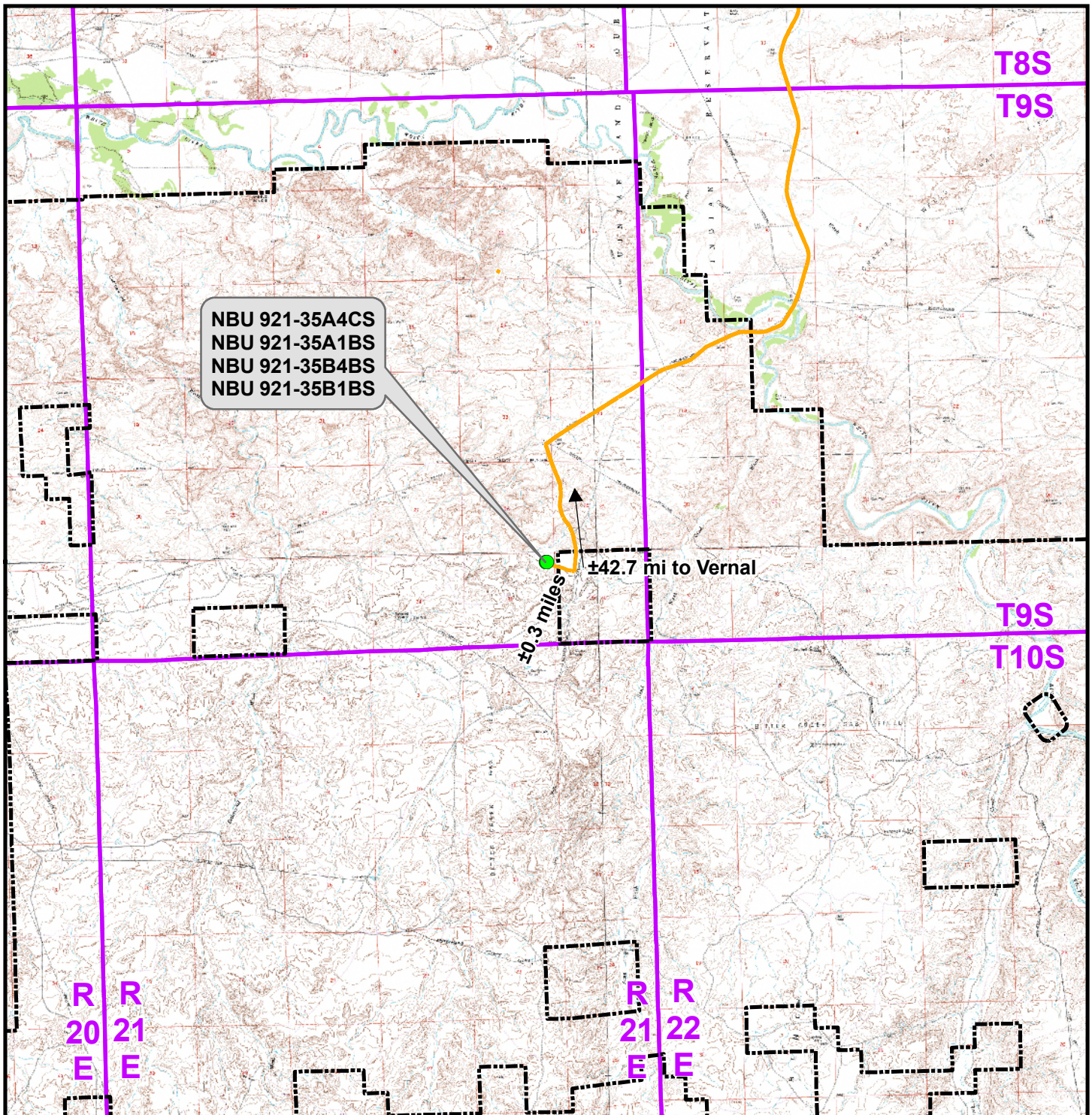
DATE DRAWN:
10-04-10

DRAWN BY: K.H.G.

9

Date Last Revised:

9 OF 16



Legend

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - NBU 921-35A To Unit Boundary: ± 445 ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35A

TOPO A

NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH



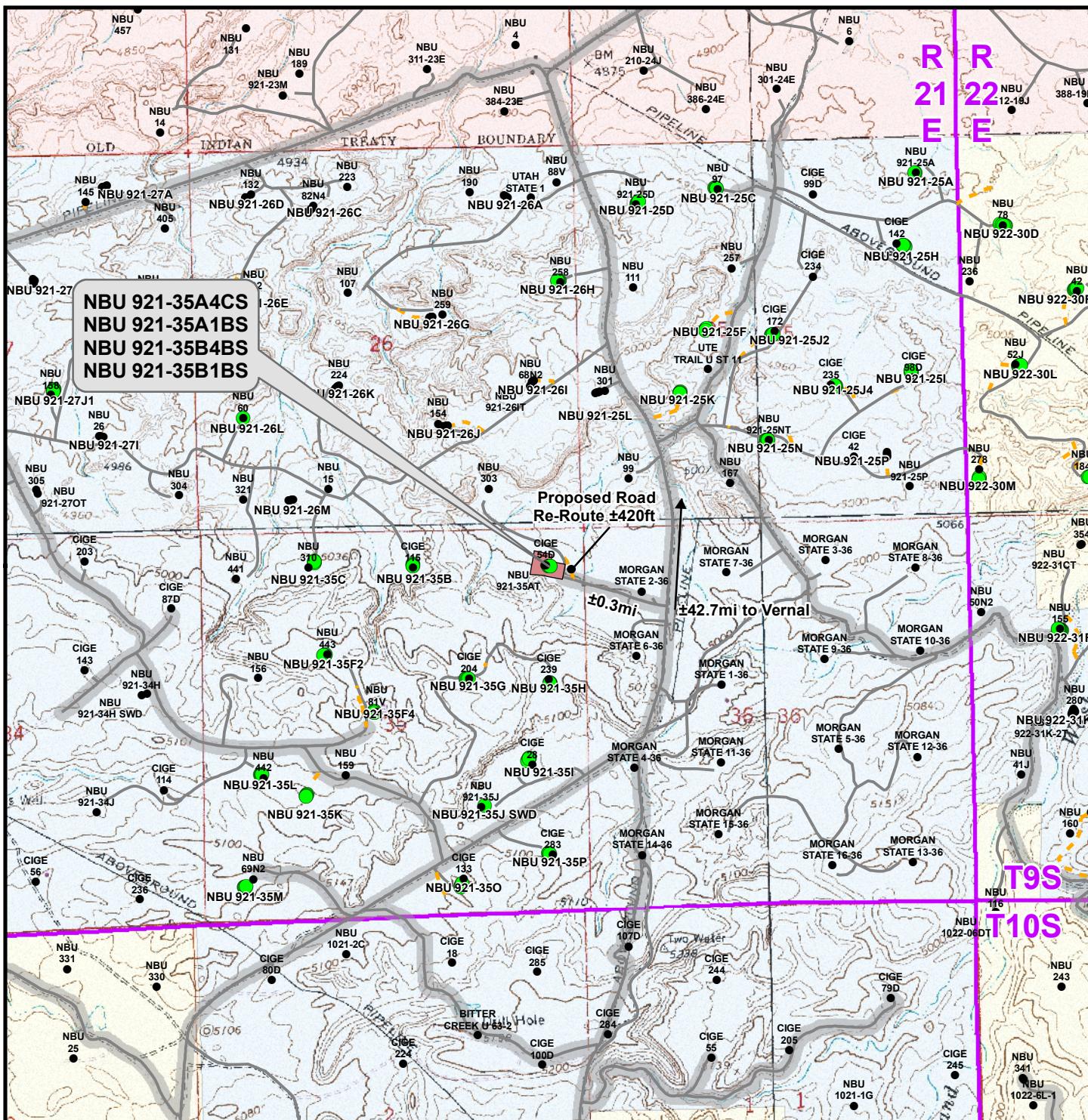
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1:100,000	NAD83 USP Central
Drawn: TL	Date: 19 Oct 2010
Revised:	Date:

Sheet No:

10 10 of 16



Legend

- | | | | | | |
|--|--|--|---|---|---|
| ● Well - Proposed | Well Pad | --- Road - Proposed | County Road | Bureau of Land Management | State |
| ● Well - Existing | --- Road - Existing | Indian Reservation | Private | | |

Total Proposed Road Re-Route Length: ±420ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35A

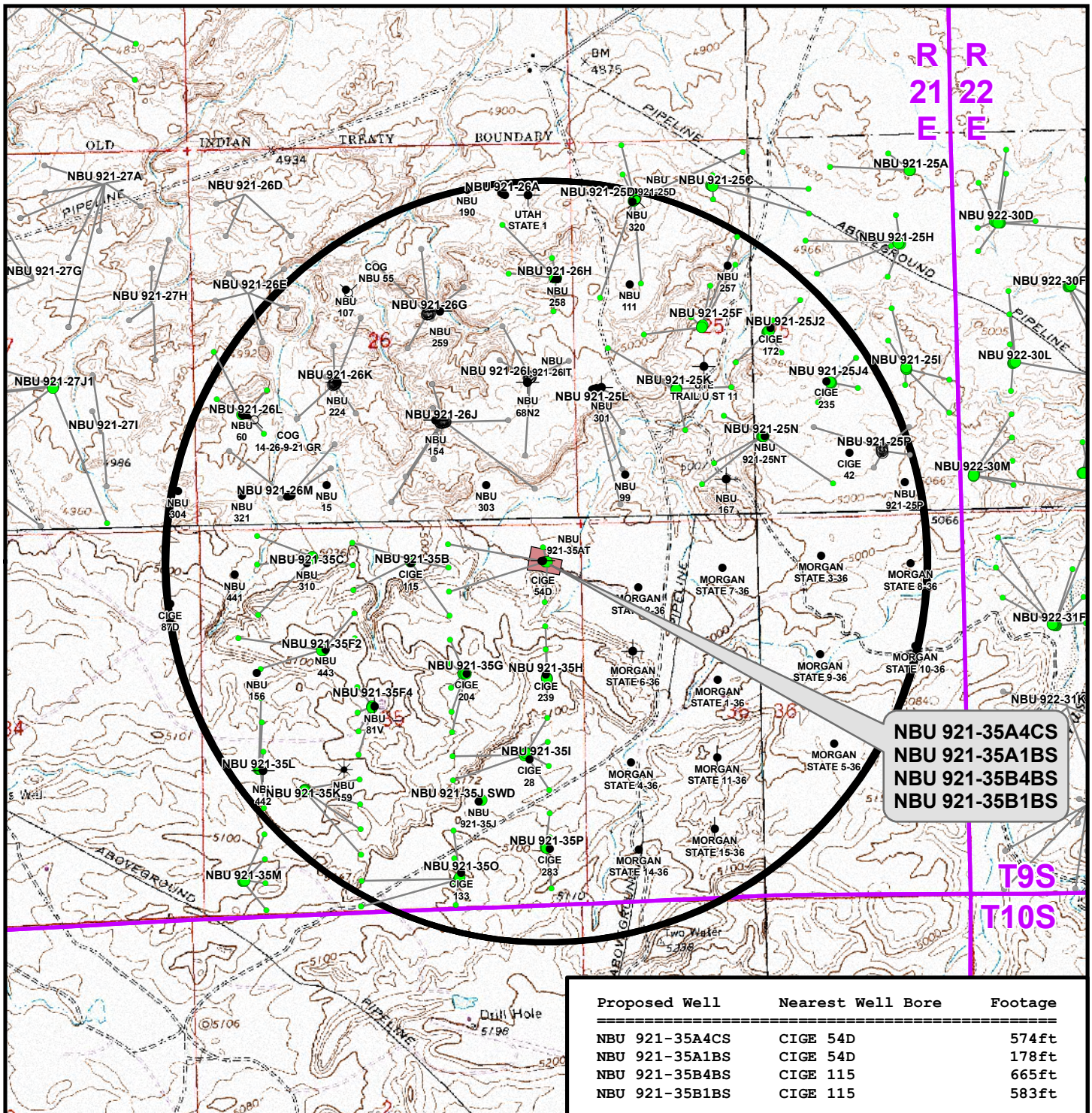
TOPO B

**NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH**



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 19 Oct 2010	11
Revised: TL	Date: 9 Dec 2010	

11 of 16



Proposed Well	Nearest Well Bore	Footage
NBU 921-35A4CS	CIGE 54D	574ft
NBU 921-35A1BS	CIGE 54D	178ft
NBU 921-35B4BS	CIGE 115	665ft
NBU 921-35B1BS	CIGE 115	583ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Well - 1 Mile Radius

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35A

TOPO C
NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH

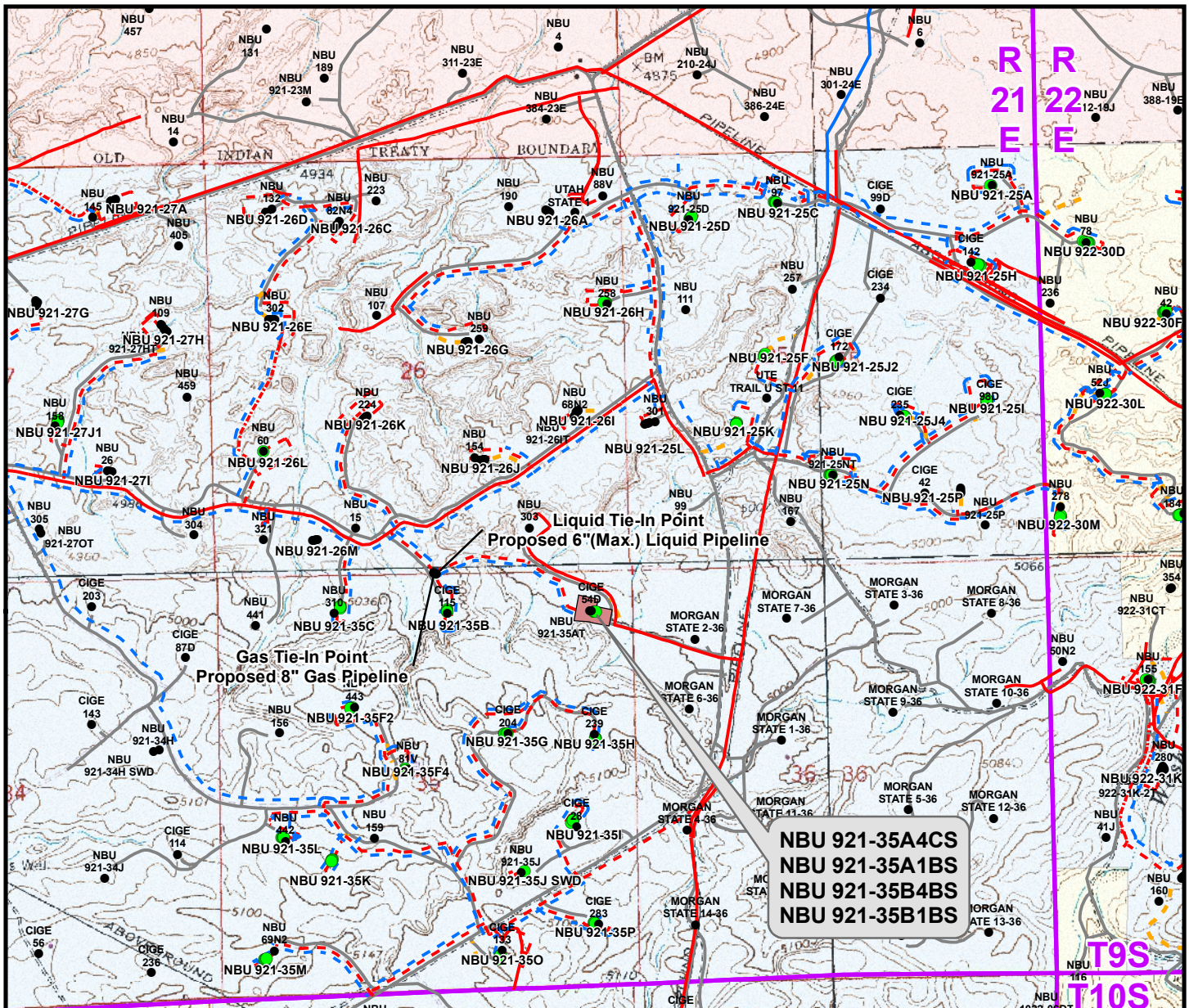
609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



- Producing
- Temporarily-Abandoned
- ★ Active
- Shut-In
- ☉ Spudded (Drilling commenced: Not yet completed)
- ▲ Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- ⊕ Inactive
- ⊗ Location Abandoned
- ⊗ Dry hole marker, buried
- ⊗ Returned APD (Unapproved)
- ⊗ Drilling Operations Suspended

Scale: 1" = 2,000ft | NAD83 USP Central
Drawn: TL | Date: 19 Oct 2010
Revised: TL | Date: 9 Dec 2010

Sheet No:
12 12 of 16



Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±70ft
Proposed 6" (Max.) (Edge of Pad to 35B Intersection)	±2,240ft
TOTAL PROPOSED LIQUID PIPELINE =	±2,310ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±70ft
Proposed 6" (Edge of Pad to Proposed 4" Re-Route Intersection)	±920ft
Proposed 4" Re-Route	±50ft
Proposed 6" (Proposed 4" Re-Route Intersection to 35B Intersection)	±1,320ft
TOTAL PROPOSED GAS PIPELINE =	±2,360ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

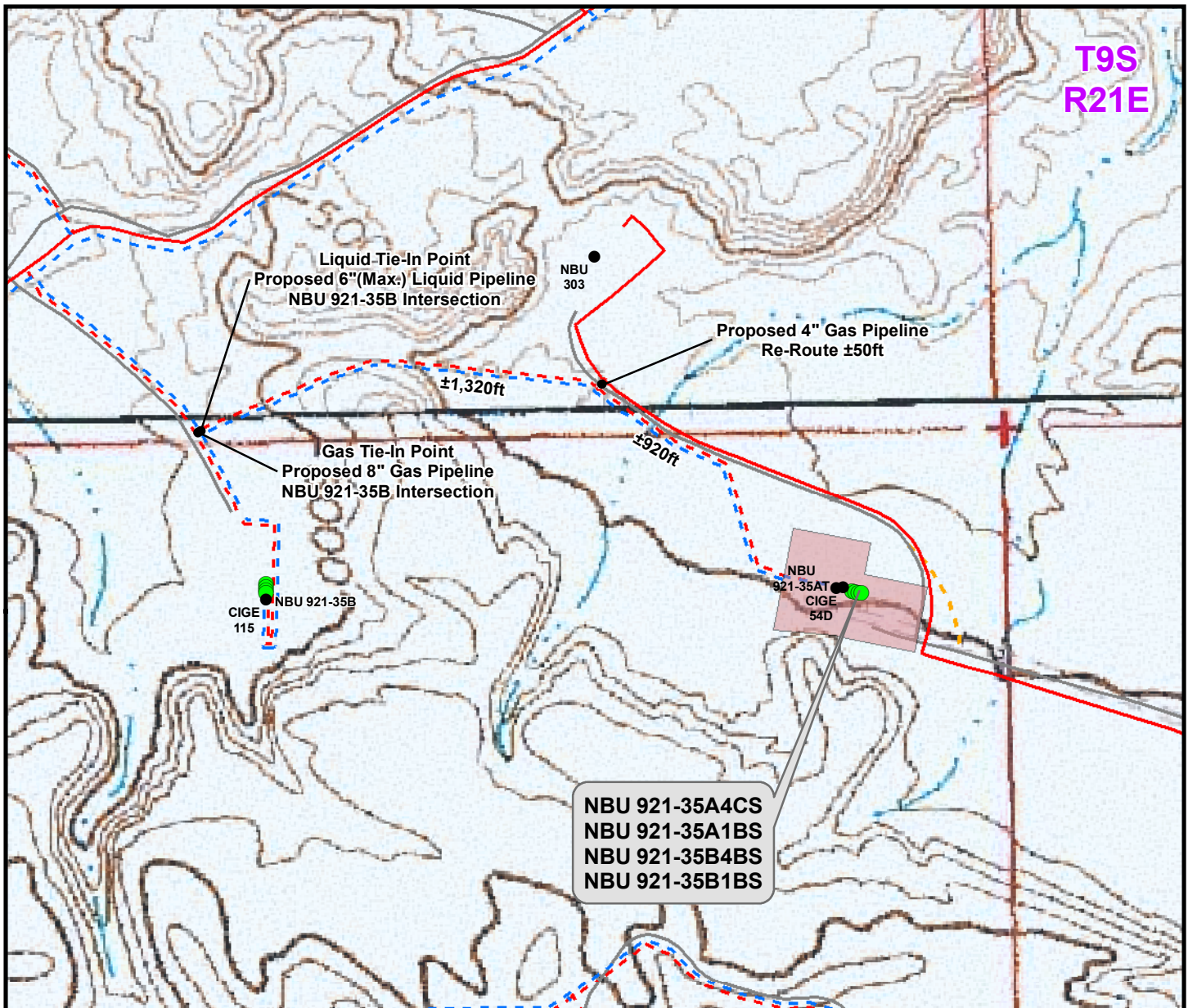
WELL PAD - NBU 921-35A

TOPO D
NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 2,000ft
NAD83 USP Central
Drawn: TL
Revised: TL
Date: 19 Oct 2010
Date: 9 Dec 2010

Sheet No:
13
13 of 16



Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Proposed 6" (Max.) (Meter House to Edge of Pad)	±70ft	Proposed 6" (Meter House to Edge of Pad)	±70ft
Proposed 6" (Max.) (Edge of Pad to 35B Intersection)	±2,240ft	Proposed 6" (Edge of Pad to Proposed 4" Re-Route Intersection)	±920ft
		Proposed 4" Re-Route	±50ft
		Proposed 6" (Proposed 4" Re-Route Intersection to 35B Intersection)	±1,320ft
TOTAL PROPOSED LIQUID PIPELINE =	±2,310ft	TOTAL PROPOSED GAS PIPELINE =	±2,360ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

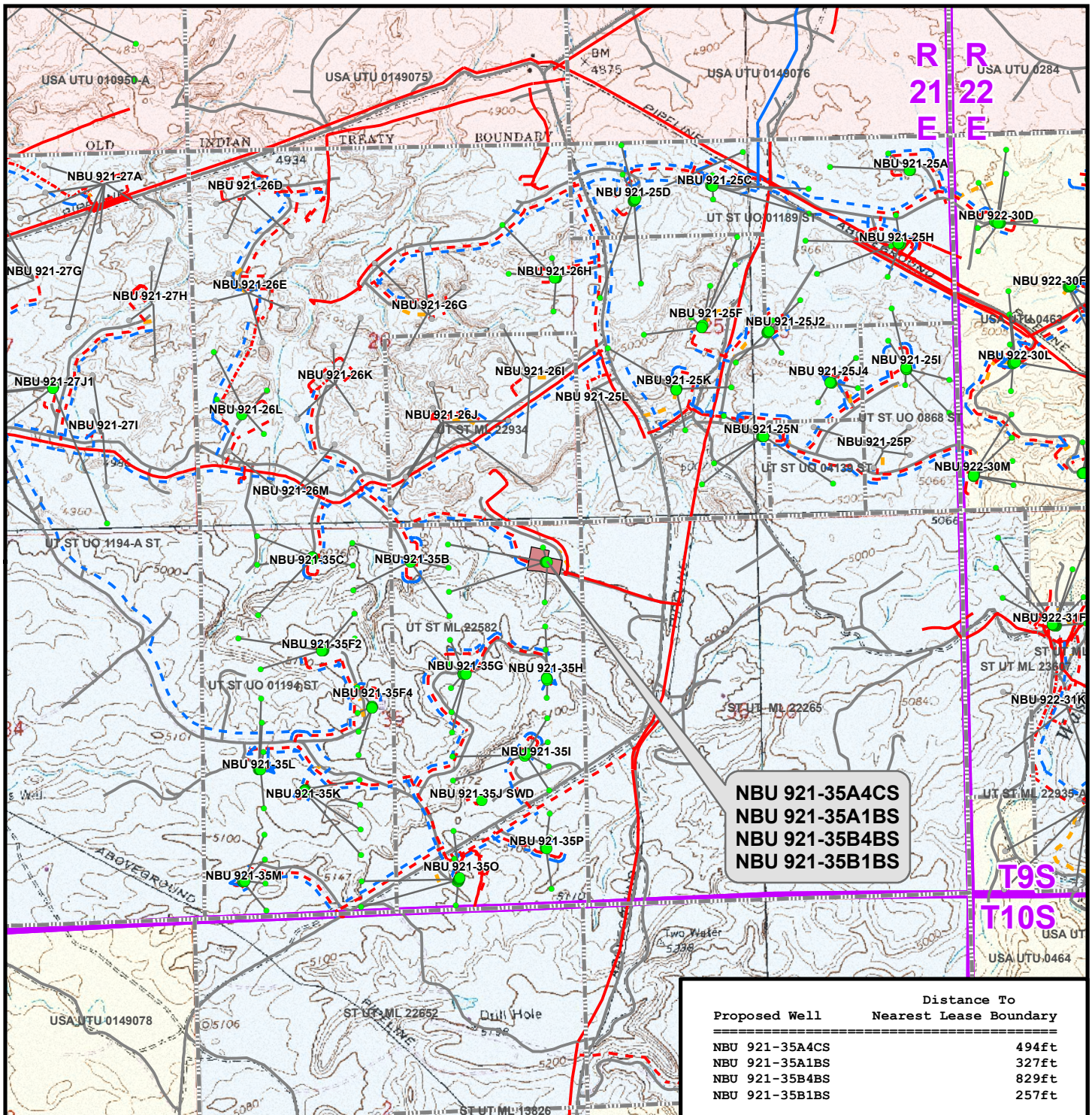
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35A

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH



Scale: 1" = 500ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 19 Oct 2010	14
Revised: TL	Date: 9 Dec 2010	14 of 16



Proposed Well	Distance To Nearest Lease Boundary
NBU 921-35A4CS	494ft
NBU 921-35A1BS	327ft
NBU 921-35B4BS	829ft
NBU 921-35B1BS	257ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- ▬ Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-35A

TOPO E
NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
LOCATED IN SECTION 35, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH

609
CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 19 Oct 2010	15 15 of 16
Revised: TL	Date: 9 Dec 2010	

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 921-35A
WELLS – NBU 921-35A4CS, NBU 921-35A1BS,
NBU 921-35B4BS & NBU 921-35B1BS
Section 35, T9S, R21E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 19.2 miles to a service road to the northwest. Exit right and proceed in a northwesterly direction along the service road approximately 0.3 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 43.0 miles in a southerly direction.

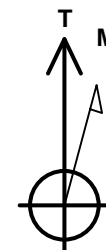
WELL DETAILS: NBU 921-35A4CS

GL 4990 & KB 14'
@ 5004.00ft (ASSUMED)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14528927.70	2057614.06	39° 59' 54.038 N	109° 30' 37.386 W

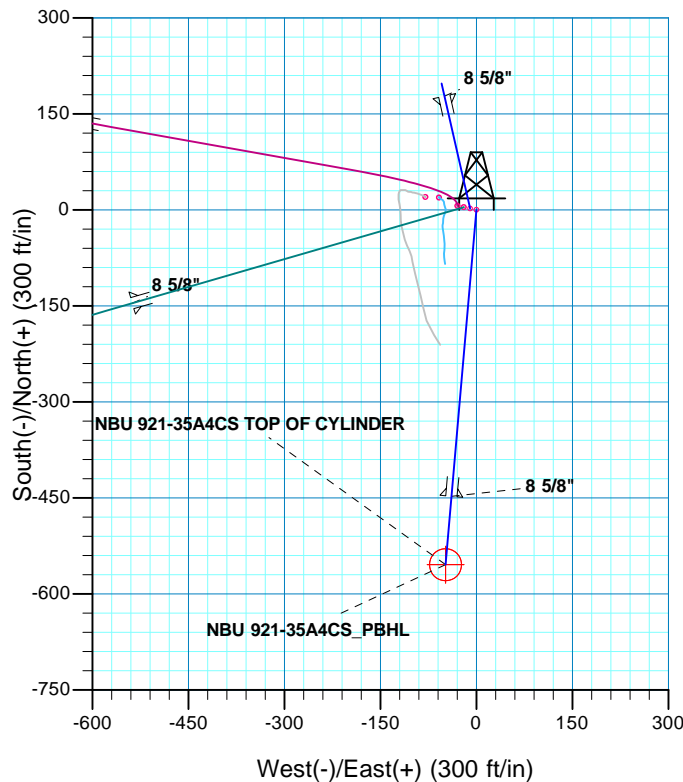
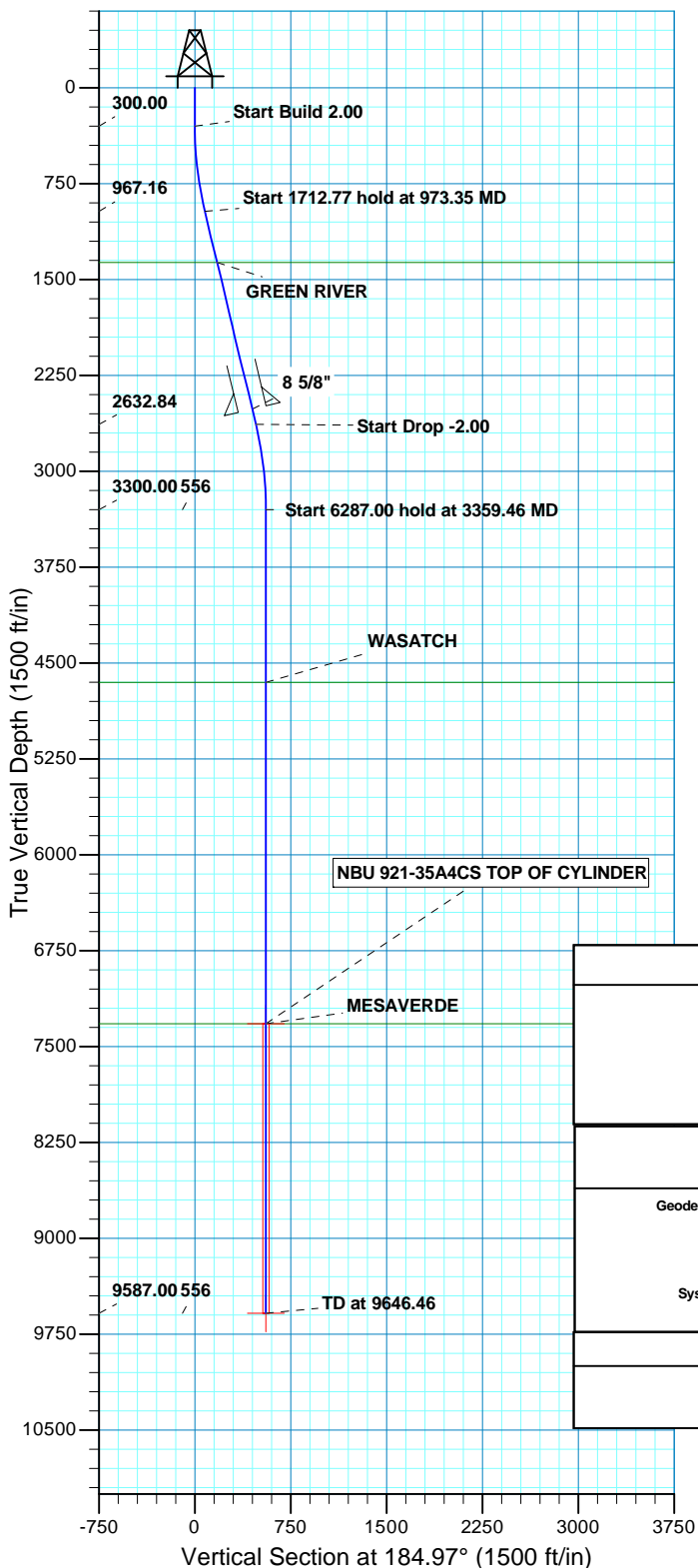
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
TOP OF CYLINDER 7322.00		-554.32	-48.18	14528372.65	2057575.15	39° 59' 48.559 N	109° 30' 38.005 W	Point
- plan hits target center								
PBHL 9587.00		-554.32	-48.18	14528372.65	2057575.15	39° 59' 48.559 N	109° 30' 38.005 W	Circle (Radius: 25.00)
- plan hits target center								



Azimuths to True North
Magnetic North: 11.16°

Magnetic Field
Strength: 52389.5snT
Dip Angle: 65.88°
Date: 10/27/2010
Model: IGRF2010



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
973.35	13.47	184.97	967.16	-78.47	-6.82	2.00	184.97	78.77	
2686.11	13.47	184.97	2632.84	-475.85	-41.36	0.00	0.00	477.64	
3359.46	0.00	0.00	3300.00	-554.32	-48.18	2.00	180.00	556.41	
9646.46	0.00	0.00	9587.00	-554.32	-48.18	0.00	0.00	556.41	NBU 921-35A4CS_PBHL

PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 - Western US
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SEC 35 T9S R21E
System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1367.00	1384.49	GREEN RIVER
4652.00	4711.46	WASATCH
7322.00	7381.46	MESAVERDE

CASING DETAILS

TVD	MD	Name	Size
2514.00	2563.92	8 5/8"	8.625

Plan: PLAN #1 (NBU 921-35A4CS/OH)

Created By: RobertScott Date: 15:22, October 27 2010

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

NBU 921-35A Pad

NBU 921-35A4CS

OH

Plan: PLAN #1

Standard Planning Report

27 October, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35A4CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Site:	NBU 921-35A Pad	North Reference:	True
Well:	NBU 921-35A4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-35A Pad, SEC 35 T9S R21E		
Site Position:		Northing:	14,528,933.77 usft
From:	Lat/Long	Easting:	2,057,584.54 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	39° 59' 54.103 N
		Longitude:	109° 30' 37.764 W
		Grid Convergence:	0.96 °

Well	NBU 921-35A4CS, 524' FNL 445' FEL		
Well Position	+N/-S	-6.56 ft	Northing: 14,528,927.71 usft
	+E/-W	29.41 ft	Easting: 2,057,614.06 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	4,990.00 ft
		Latitude:	39° 59' 54.038 N
		Longitude:	109° 30' 37.386 W
		Ground Level:	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/27/2010	11.16	65.88	52,389

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	184.97

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
973.35	13.47	184.97	967.16	-78.47	-6.82	2.00	2.00	0.00	184.97	
2,686.11	13.47	184.97	2,632.84	-475.85	-41.36	0.00	0.00	0.00	0.00	
3,359.46	0.00	0.00	3,300.00	-554.32	-48.18	2.00	-2.00	0.00	180.00	
9,646.46	0.00	0.00	9,587.00	-554.32	-48.18	0.00	0.00	0.00	0.00	NBU 921-35A4CS_Pf

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35A4CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Site:	NBU 921-35A Pad	North Reference:	True
Well:	NBU 921-35A4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	184.97	399.98	-1.74	-0.15	1.75	2.00	2.00	0.00
500.00	4.00	184.97	499.84	-6.95	-0.60	6.98	2.00	2.00	0.00
600.00	6.00	184.97	599.45	-15.63	-1.36	15.69	2.00	2.00	0.00
700.00	8.00	184.97	698.70	-27.78	-2.41	27.88	2.00	2.00	0.00
800.00	10.00	184.97	797.47	-43.36	-3.77	43.52	2.00	2.00	0.00
900.00	12.00	184.97	895.62	-62.37	-5.42	62.60	2.00	2.00	0.00
973.35	13.47	184.97	967.16	-78.47	-6.82	78.77	2.00	2.00	0.00
Start 1712.77 hold at 973.35 MD									
1,000.00	13.47	184.97	993.08	-84.66	-7.36	84.98	0.00	0.00	0.00
1,100.00	13.47	184.97	1,090.33	-107.86	-9.38	108.26	0.00	0.00	0.00
1,200.00	13.47	184.97	1,187.59	-131.06	-11.39	131.55	0.00	0.00	0.00
1,300.00	13.47	184.97	1,284.84	-154.26	-13.41	154.84	0.00	0.00	0.00
1,384.49	13.47	184.97	1,367.00	-173.86	-15.11	174.52	0.00	0.00	0.00
GREEN RIVER									
1,400.00	13.47	184.97	1,382.09	-177.46	-15.43	178.13	0.00	0.00	0.00
1,500.00	13.47	184.97	1,479.34	-200.66	-17.44	201.42	0.00	0.00	0.00
1,600.00	13.47	184.97	1,576.59	-223.86	-19.46	224.71	0.00	0.00	0.00
1,700.00	13.47	184.97	1,673.84	-247.06	-21.48	247.99	0.00	0.00	0.00
1,800.00	13.47	184.97	1,771.09	-270.26	-23.49	271.28	0.00	0.00	0.00
1,900.00	13.47	184.97	1,868.34	-293.46	-25.51	294.57	0.00	0.00	0.00
2,000.00	13.47	184.97	1,965.59	-316.67	-27.53	317.86	0.00	0.00	0.00
2,100.00	13.47	184.97	2,062.84	-339.87	-29.54	341.15	0.00	0.00	0.00
2,200.00	13.47	184.97	2,160.09	-363.07	-31.56	364.44	0.00	0.00	0.00
2,300.00	13.47	184.97	2,257.34	-386.27	-33.58	387.73	0.00	0.00	0.00
2,400.00	13.47	184.97	2,354.59	-409.47	-35.59	411.01	0.00	0.00	0.00
2,500.00	13.47	184.97	2,451.84	-432.67	-37.61	434.30	0.00	0.00	0.00
2,563.92	13.47	184.97	2,514.00	-447.50	-38.90	449.19	0.00	0.00	0.00
8 5/8"									
2,600.00	13.47	184.97	2,549.09	-455.87	-39.63	457.59	0.00	0.00	0.00
2,686.11	13.47	184.97	2,632.84	-475.85	-41.36	477.64	0.00	0.00	0.00
Start Drop -2.00									
2,700.00	13.19	184.97	2,646.35	-479.04	-41.64	480.85	2.00	-2.00	0.00
2,800.00	11.19	184.97	2,744.09	-500.07	-43.47	501.96	2.00	-2.00	0.00
2,900.00	9.19	184.97	2,842.51	-517.70	-45.00	519.65	2.00	-2.00	0.00
3,000.00	7.19	184.97	2,941.48	-531.89	-46.23	533.89	2.00	-2.00	0.00
3,100.00	5.19	184.97	3,040.90	-542.63	-47.17	544.67	2.00	-2.00	0.00
3,200.00	3.19	184.97	3,140.62	-549.90	-47.80	551.98	2.00	-2.00	0.00
3,300.00	1.19	184.97	3,240.55	-553.71	-48.13	555.80	2.00	-2.00	0.00
3,359.46	0.00	0.00	3,300.00	-554.32	-48.18	556.41	2.00	-2.00	294.38
Start 6287.00 hold at 3359.46 MD									
3,400.00	0.00	0.00	3,340.54	-554.32	-48.18	556.41	0.00	0.00	0.00
3,500.00	0.00	0.00	3,440.54	-554.32	-48.18	556.41	0.00	0.00	0.00
3,600.00	0.00	0.00	3,540.54	-554.32	-48.18	556.41	0.00	0.00	0.00
3,700.00	0.00	0.00	3,640.54	-554.32	-48.18	556.41	0.00	0.00	0.00
3,800.00	0.00	0.00	3,740.54	-554.32	-48.18	556.41	0.00	0.00	0.00
3,900.00	0.00	0.00	3,840.54	-554.32	-48.18	556.41	0.00	0.00	0.00

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35A4CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Site:	NBU 921-35A Pad	North Reference:	True
Well:	NBU 921-35A4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,000.00	0.00	0.00	3,940.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,040.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
4,200.00	0.00	0.00	4,140.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
4,300.00	0.00	0.00	4,240.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
4,400.00	0.00	0.00	4,340.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
4,500.00	0.00	0.00	4,440.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
4,600.00	0.00	0.00	4,540.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
4,700.00	0.00	0.00	4,640.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
4,711.46	0.00	0.00	4,652.00	-554.32	-48.18	556.41	0.00	0.00	0.00	
WASATCH										
4,800.00	0.00	0.00	4,740.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
4,900.00	0.00	0.00	4,840.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
5,000.00	0.00	0.00	4,940.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
5,100.00	0.00	0.00	5,040.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
5,200.00	0.00	0.00	5,140.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
5,300.00	0.00	0.00	5,240.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
5,400.00	0.00	0.00	5,340.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
5,500.00	0.00	0.00	5,440.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,540.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,640.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,740.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,840.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,940.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,040.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,140.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,240.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,340.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,440.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,540.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,640.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,740.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,840.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,940.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,040.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,140.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,240.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
7,381.46	0.00	0.00	7,322.00	-554.32	-48.18	556.41	0.00	0.00	0.00	
MESAVERDE - NBU 921-35A4CS TOP OF CYLINDER										
7,400.00	0.00	0.00	7,340.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,440.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,540.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,640.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,740.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,840.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,940.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,040.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,140.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,240.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,340.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,440.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,540.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,640.54	-554.32	-48.18	556.41	0.00	0.00	0.00	

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35A4CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Site:	NBU 921-35A Pad	North Reference:	True
Well:	NBU 921-35A4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,800.00	0.00	0.00	8,740.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,840.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
9,000.00	0.00	0.00	8,940.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,040.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,140.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
9,300.00	0.00	0.00	9,240.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
9,400.00	0.00	0.00	9,340.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
9,500.00	0.00	0.00	9,440.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
9,600.00	0.00	0.00	9,540.54	-554.32	-48.18	556.41	0.00	0.00	0.00	
9,646.46	0.00	0.00	9,587.00	-554.32	-48.18	556.41	0.00	0.00	0.00	
NBU 921-35A4CS_PBHL										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
NBU 921-35A4CS TOP - plan hits target center - Point	0.00	0.00	7,322.00	-554.32	-48.18	14,528,372.66	2,057,575.15	39° 59' 48.559 N	109° 30' 38.005 W	
NBU 921-35A4CS_PBH - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,587.00	-554.32	-48.18	14,528,372.66	2,057,575.15	39° 59' 48.559 N	109° 30' 38.005 W	

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,563.92	2,514.00	8 5/8"	8.625	11.000	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,384.49	1,367.00	GREEN RIVER				
4,711.46	4,652.00	WASATCH				
7,381.46	7,322.00	MESAVERDE				

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-35A4CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4990 & KB 14' @ 5004.00ft (ASSUMED)
Site:	NBU 921-35A Pad	North Reference:	True
Well:	NBU 921-35A4CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
973.35	967.16	-78.47	-6.82	Start 1712.77 hold at 973.35 MD
2,686.11	2,632.84	-475.85	-41.36	Start Drop -2.00
3,359.46	3,300.00	-554.32	-48.18	Start 6287.00 hold at 3359.46 MD
9,646.46	9,587.00	-554.32	-48.18	TD at 9646.46

NBU 921-35A1BS

Surface: 522' FNL 455' FEL (NE/4NE/4)
BHL: 327' FNL 499' FEL (NE/4NE/4)

NBU 921-35A4CS

Surface: 524' FNL 445' FEL (NE/4NE/4)
BHL: 1,079' FNL 494' FEL (NE/4NE/4)

NBU 921-35B1BS

Surface: 518' FNL 474' FEL (NE/4NE/4)
BHL: 257' FNL 1,813' FEL (NW/4NE/4)

NBU 921-35B4BS

Surface: 520' FNL 464' FEL (NE/4NE/4)
BHL: 916' FNL 1,817' FEL (NW/4NE/4)

Pad: NBU 921-35A
Section 35 T9S R21E
Mineral Lease: ML 22582

Uintah County, Utah
Operator: Kerr-McGee Oil & Gas Onshore LP

MULTI-POINT SURFACE USE PLAN of OPERATIONS (SUPO)

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including, but not limited to, APDs/SULAs/ROEs/ROWs and/or easements).

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county roads and improved/unimproved lease roads. APC/KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and

utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

Approximately $\pm 420'$ (0.08 miles) of road re-route is proposed (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

Where roads are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

Turnouts; major cut and fills; culverts; bridges; gates; cattle guards; low water crossings; or modifications needed to existing infrastructure/facilities were determined at the on-site and, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the NBU 921-35AT and the CIGE 54D. The NBU 921-25AT well location is a vertical producing well and the CIGE 54D well is a SWD Monitor well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of November 11, 2010.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of each well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) aboveground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Production tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks are not to be used for disposal of liquids from additional sources without prior approval of UDOGM.

Gathering facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is $\pm 2,360'$ and the individual segments are broken up as follows:

- $\pm 70'$ (0.01 miles) – New 6" buried gas pipeline from the meter to the edge of the pad.
- $\pm 920'$ (0.2 miles) – New 6" buried gas pipeline from the edge of pad to the proposed 4" pipeline re-route intersection.
- $\pm 50'$ (0.01 miles) – Re-route 4" buried gas pipeline to the proposed 6" gas pipeline.

±1,320' (0.3 miles) –New 6" buried gas pipeline from the proposed 4" pipeline re-route intersection to the NBU 921-35B pad intersection.

The total liquid gathering pipeline distance from the separator to the tie in point is ±2,310' and the individual segments are broken up as follows:

±70' (0.01 miles) –New 6" buried liquid pipeline from the separator to the edge of the pad.

±2,240' (0.4 miles) –New 6" buried liquid pipeline from the edge of pad to the NBU 921-35B pad intersection.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. Kerr-McGee requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, Kerr-McGee requests a temporary 45' construction right-of-way and 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods of Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

RNI in Sec. 5 T9S R22E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E
Ouray #1 SWD in Sec. 1 T9S R21E
NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 33 T9S R21E
NBU 921-34L SWD in Sec. 34 T9S R21E

Drill cuttings and/or fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20-mil or thicker. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary to subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, accidental release, or in excess of reportable quantities will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule, and, where State wells are participatory to a Federal agreement, according to NTL-3A.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition,

no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1983 (NAD83) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but are not limited to: re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where

possible, the land surface will be left “rough” after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by APC/KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

SITLA

675 East 500 South, Suite 500

Salt Lake City, UT 84102

K. Other Information:

None

M. Lessee's or Operators' Representative & Certification:

Danielle Piernot
Regulatory Analyst I
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6156

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724


Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Danielle Piernot

November 19, 2010
Date



Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
DENVER, CO 80217-3779

October 25, 2010

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 921-34A4CS
T9S-R21E
Section 35: NENE (Surf), NENE (Bottom)
Surface: 445' FEL, 524' FNL
Bottom Hole: 494' FEL, 1079' FNL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- Kerr-McGee's NBU 921-35A4CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink that reads 'Joe Matney'.

Joe Matney
Sr. Staff Landman

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

November 19, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2010 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 921-35A Pad

43-047-51339	NBU 921-35A1BS	Sec 35 T09S R21E 0522 FNL 0455 FEL
	BHL	Sec 35 T09S R21E 0327 FNL 0499 FEL

43-047-51340	NBU 921-35A4CS	Sec 35 T09S R21E 0524 FNL 0445 FEL
	BHL	Sec 35 T09S R21E 1079 FNL 0494 FEL

43-047-51341	NBU 921-35B1BS	Sec 35 T09S R21E 0518 FNL 0474 FEL
	BHL	Sec 35 T09S R21E 0257 FNL 1813 FEL

43-047-51342	NBU 921-35B4BS	Sec 35 T09S R21E 0520 FNL 0464 FEL
	BHL	Sec 35 T09S R21E 0916 FNL 1817 FEL

NBU 921-35B Pad

43-047-51343	NBU 921-35B1CS	Sec 35 T09S R21E 0468 FNL 2339 FEL
	BHL	Sec 35 T09S R21E 0582 FNL 1816 FEL

43-047-51344	NBU 921-35B4CS	Sec 35 T09S R21E 0488 FNL 2340 FEL
	BHL	Sec 35 T09S R21E 1249 FNL 1818 FEL

43-047-51345	NBU 921-35C1BS	Sec 35 T09S R21E 0458 FNL 2338 FEL
	BHL	Sec 35 T09S R21E 0207 FNL 2154 FWL

43-047-51346	NBU 921-35C4BS	Sec 35 T09S R21E 0478 FNL 2339 FEL
	BHL	Sec 35 T09S R21E 0860 FNL 2144 FWL

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 921-35C Pad

43-047-51347	NBU 921-35C1CS	Sec 35 T09S R21E 0399 FNL 1591 FWL
	BHL	Sec 35 T09S R21E 0522 FNL 2147 FWL
43-047-51348	NBU 921-35D1BS	Sec 35 T09S R21E 0389 FNL 1592 FWL
	BHL	Sec 35 T09S R21E 0089 FNL 0831 FWL
43-047-51349	NBU 921-35D1CS	Sec 35 T09S R21E 0409 FNL 1589 FWL
	BHL	Sec 35 T09S R21E 0488 FNL 0823 FWL
43-047-51350	NBU 921-35D4CS	Sec 35 T09S R21E 0418 FNL 1588 FWL
	BHL	Sec 35 T09S R21E 1182 FNL 0818 FWL

NBU 921-35F2 Pad

43-047-51351	NBU 921-35C4CS	Sec 35 T09S R21E 1686 FNL 1699 FWL
	BHL	Sec 35 T09S R21E 1187 FNL 2148 FWL
43-047-51352	NBU 921-35E1CS	Sec 35 T09S R21E 1691 FNL 1679 FWL
	BHL	Sec 35 T09S R21E 1933 FNL 0826 FWL
43-047-51353	NBU 921-35E2AS	Sec 35 T09S R21E 1688 FNL 1689 FWL
	BHL	Sec 35 T09S R21E 1498 FNL 0535 FWL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

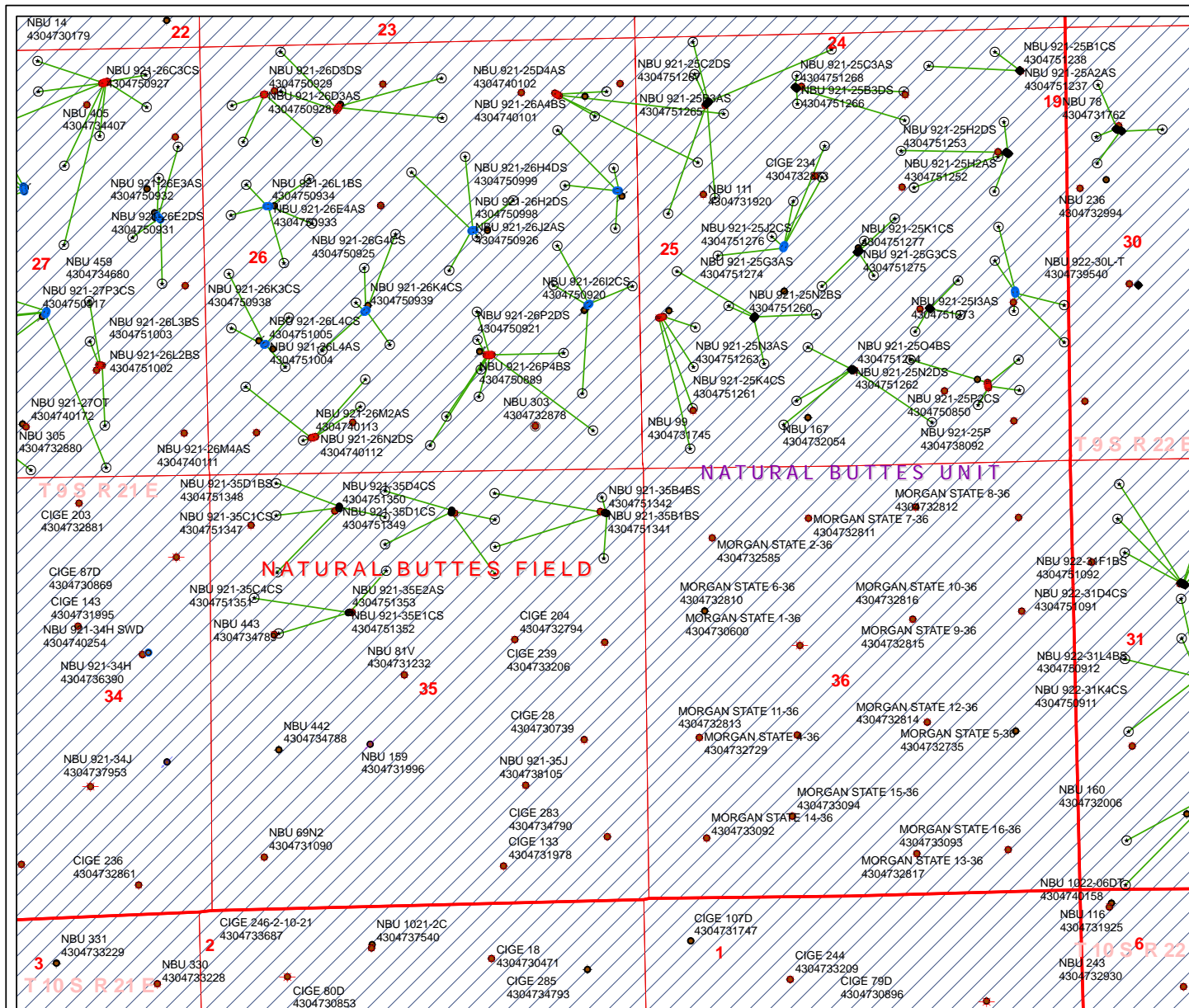
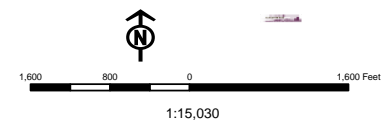
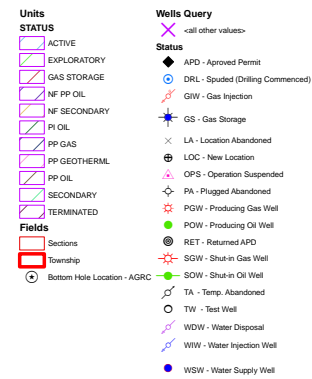
Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management,
ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2010.11.19 09:52:13 -07'00'

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:11-19-10

API Number: 4304751340
Well Name: NBU 921-35A4CS
Township 09.0 S Range 21.0 E Section 35
Meridian: SLBM
Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason



Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 921-35A4CS 430475134			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2267	9587		
Previous Shoe Setting Depth (TVD)	40	2267		
Max Mud Weight (ppg)	8.3	12.0		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	5848	11.7		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	982	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	710	NO air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	483	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	492	NO Reasonable for area
Required Casing/BOPE Test Pressure=		2267	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

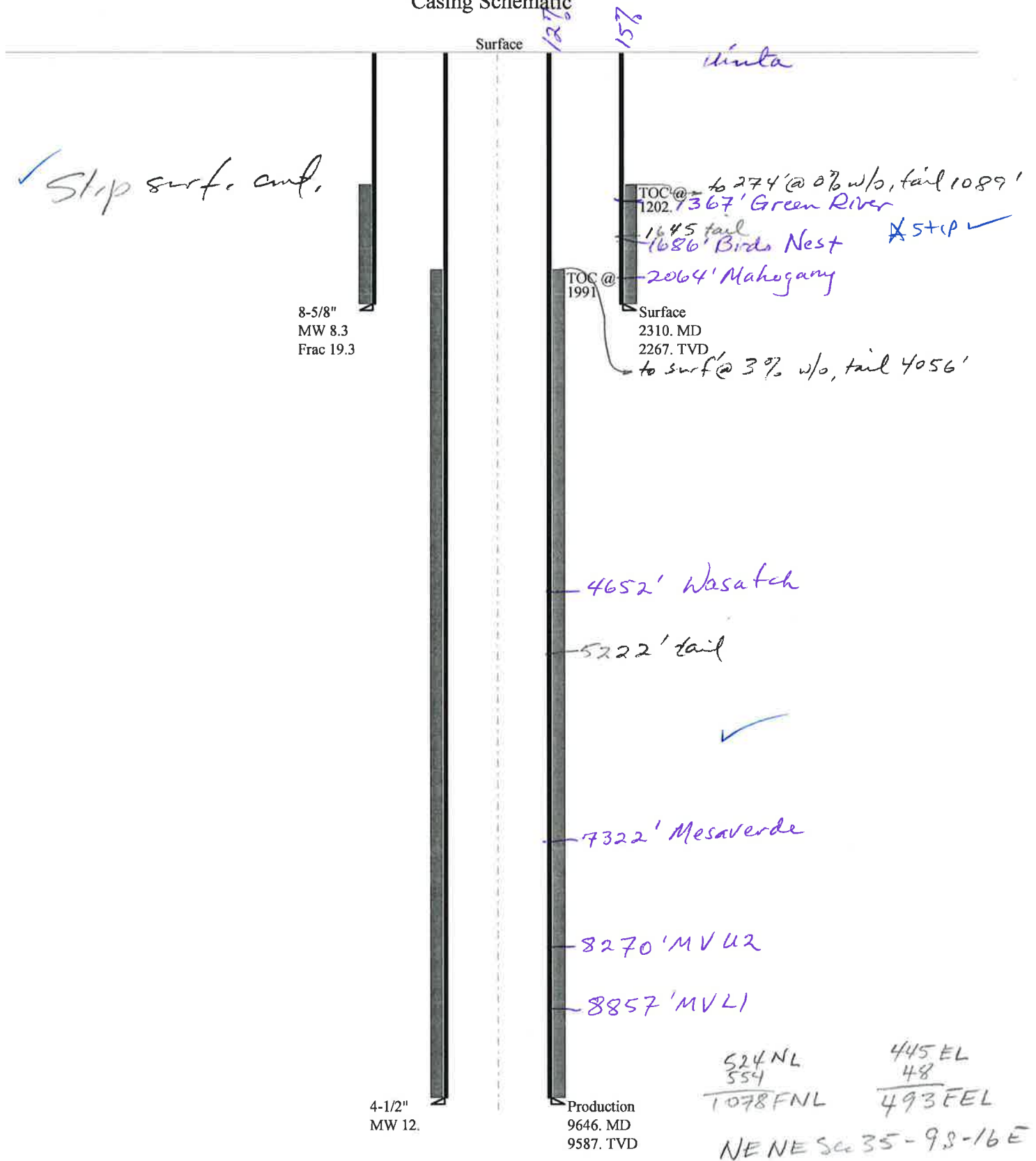
Calculations	Prod String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	5982	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4832	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3873	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4372	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2267	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

43047513400000 NBU 921-35A4CS

Casing Schematic



Well name:	43047513400000 NBU 921-35A4CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-51340
Location:	UINTAH	COUNTY	

Design parameters:**Collapse**

Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 106 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,202 ft

Burst

Max anticipated surface pressure: 2,033 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,305 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 2,024 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 390 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 13.47 °

Re subsequent strings:

Next setting depth: 9,587 ft
Next mud weight: 12.000 ppg
Next setting BHP: 5,976 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,310 ft
Injection pressure: 2,310 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2310	8.625	28.00	I-55	LT&C	2267	2310	7.892	91476
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	981	1880	1.916	2305	3390	1.47	63.5	348	5.48 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: December 8, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2267 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:	43047513400000 NBU 921-35A4CS	
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.	
String type:	Production	Project ID: 43-047-51340
Location:	UINTAH COUNTY	

Design parameters:**Collapse**

Mud weight: 12.000 ppg
Internal fluid density: 1.000 ppg

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 208 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,991 ft

Burst

Max anticipated surface pressure: 3,867 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,976 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 556 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 0 °

Tension is based on air weight.
Neutral point: 7,926 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9646	4.5	11.60	I-80	LT&C	9587	9646	3.875	127327

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5478	6360	1.161	5976	7780	1.30	111.2	212	1.91 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: December 8, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9587 ft, a mud weight of 12 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

From: Jim Davis
To: Bonner, Ed; Hill, Brad; Mason, Diana
CC: Curry, Kristine; Danielle Piernot; Garrison, LaVonne; Hayden, Martha;...
Date: 12/22/2010 5:49 AM
Subject: Kerr McGee APD approvals in 9S 21E Sec 35
Attachments: KMG approvals 921-35 on 12.22.2010.xls

The following wells have been approved by SITLA under the following arch and paleo stipulations. This is a long list, so I'm attaching a spreadsheet with the same information.

A note on arch and paleo stipulations: Wells that have an arch note "non-significant site" do not need to be avoided or mitigated. Only those that say "needs to be avoided".

The paleo reports make recommendations for "spot paleo monitoring" or "full paleo monitoring". It is my understanding that Kerr McGee is taking these stipulations and doing full monitoring in either case, in an abundance of caution.

-Jim Davis

Well Name	API	Paleo Stipulations	Arch Stipulations
Kerr-McGee's NBU 921-35A1BS (U-07-MQ-1437b,i,p,s)	API #4304751339		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35A4CS (U-07-MQ-1437b,i,p,s)	API #4304751340		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B1BS (U-07-MQ-1437b,i,p,s)	API #4304751341		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B4BS (U-07-MQ-1437b,i,p,s)	API #4304751342		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B1CS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)	API #4304751343		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35B4CS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)	API #4304751344		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C1BS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)	API #4304751345		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C4BS (U-07-MQ-1437b,i,p,s; eligible site 42Un6461, just south of proposed pipeline needs to be avoided)	API #4304751346		IPC 10-98 Spot Paleo Monitoring
Kerr-McGee's NBU 921-35C1CS (U-07-MQ-1437b,i,p,s)	API #4304751347		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35D1BS (U-07-MQ-1437b,i,p,s)	API #4304751348		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35D1CS (U-07-MQ-1437b,i,p,s)	API #4304751349		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35D4CS (U-07-MQ-1437b,i,p,s)	API #4304751350		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35C4CS (U-07-MQ-1437b,i,p,s)	API #4304751351		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35E1CS (U-07-MQ-1437b,i,p,s)	API #4304751352		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35E2AS (U-07-MQ-1437b,i,p,s)	API #4304751353		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35F1BS (U-07-MQ-1437b,i,p,s)	API #4304751355		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35F4BS (U-07-MQ-1437b,i,p,s)	API #4304751356		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35F4CS (U-07-MQ-1437b,i,p,s)	API #4304751357		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)
Kerr-McGee's NBU 921-35K1BS	API #4304751358		IPC 10-97 Full Paleo Monitoring (U-07-MQ-1437b,i,p,s)

MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35K1CS	API #4304751359	IPC 10-97 Full Paleo Monitoring	(U-07-
MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35G1BS	API #4304751360	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35G1CS	API #4304751361	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35G4BS	API #4304751362	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35G4CS	API #4304751363	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35J1S	API #4304751364	IPC 10-98 Spot Paleo Monitoring	(U-07-
MQ-1437b,i,p,s; 1 non-significant site, 42Un2395, adjacent to the road)			
Kerr-McGee's NBU 921-35H1BS	API #4304751365	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35H1CS	API #4304751366	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35H4BS	API #4304751367	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35H4CS	API #4304751368	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35I1BS	API #4304751369	IPC 10-100 Full Paleo Monitoring	(U-07-
MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35I1CS	API #4304751370	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35I4BS	API #4304751371	IPC 10-100 Full Paleo Monitoring	(U-07-
MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35I4CS	API #4304751372	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35J1CS	API #4304751373	IPC 10-98 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35J4BS	API #4304751374	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35K4BS	API #4304751375	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35K4CS	API #4304751376	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35N1BS	API #4304751377	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35N1CS	API #4304751378	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35E4CS	API #4304751379	IPC 10-99 Spot Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35P4CS	API #4304751380	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35P1CS	API #4304751381	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35P1BS	API #4304751382	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s)			
Kerr-McGee's NBU 921-35O4CS	API #4304751383	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)			
Kerr-McGee's NBU 921-35O4BS	API #4304751384	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)			
Kerr-McGee's NBU 921-35O1CS	API #4304751385	IPC 10-100 Full Paleo Monitoring	
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)			
Kerr-McGee's NBU 921-35L1BS	API #4304751386	IPC 10-99 Spot Paleo Monitoring	

(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35O1BS	API #4304751387	IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		
Kerr-McGee's NBU 921-35N4CS	API #4304751388	IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		
Kerr-McGee's NBU 921-35L1CS	API #4304751389	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35L4CS	API #4304751390	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M1BS	API #4304751391	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M1CS	API #4304751392	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M4BS	API #4304751393	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35M4CS	API #4304751394	IPC 10-99 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s)		
Kerr-McGee's NBU 921-35N4BS	API #4304751395	IPC 10-100 Spot Paleo Monitoring
(U-07-MQ-1437b,i,p,s; 1 non-significant site, 42Un1836, adjacent to pipeline)		

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.				
Well Name	NBU 921-35A4CS				
API Number	43047513400000	APD No	3153	Field/Unit	NATURAL BUTTES
Location: 1/4,1/4	NENE	Sec	35	Tw	9.0S
		Rng	21.0E	524	FNL 445 FEL
GPS Coord (UTM)	627156 4428429	Surface Owner			

Participants

See Other Comments:

Regional/Local Setting & Topography

The general area is within the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 36 air miles and 43.0 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads to the site. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs, furnishing water for antelope or livestock.

The NBU 921-35A pad will be created by slightly enlarging the existing pad of the CIGE 541 and NBU 921-35AT gas wells. It will be primarily enlarged to the east and north. Four gas wells, to be directionally drilled, will be added. They are the NBU 921-35B1BS, 921-35A1BS, 921-35B4BS and 921-35A4CS. The pad begins at the foot of an existing vertical cut into a side-hill on the south. It extends east into a gentle area. The pad will be widened from 47 to 60 feet between Corners 8 and 9. No drainages intersect the site and no diversions are needed. The reserve pit is proposed on the north and has a slight fill on the northeast corner. With the planned 15 foot outer bench and the spoils pile beyond the bench, it should be stable. A major tributary of Sand Wash is about 1/2 mile to the east of the site and the White River about 3 mile down drainage. The selected site appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the only site in the immediate area.

Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use

Grazing
Wildlfe Habitat
Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 312 Length 455	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation is a poor desert shrub type, which includes greasewood, broom snakeweed, shadscale and halogeton.

Antelope, sheep during the winter, rabbits, coyotes, and small mammals, birds and raptors.

Soil Type and Characteristics

Surface soils are shallow and rocky

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?**

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
	Final Score	40 1 Sensitivity Level

Characteristics / Requirements

The proposed reserve pit is 120' x 220' x 12' deep located mostly in a cut on the northwest corner of the location. Kerr McGee plans a 30-mil liner with a double felt sub-liner.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 30 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett (DOGM), Sheila Wopsock, Clay Einerson, Lovell Young, Grizz Oleen, Charles Chase, Colby Sutton, Doyle Holmes, Claudia Sass, (Kerr McGee), Mitch Batty, John Slaugh, (Timberline Engineering and Land Surveying), Jim Davis (SITLA) and Ben Williams, (UDWR).

Floyd Bartlett
Evaluator

11/30/2010
Date / Time

Application for Permit to Drill

Statement of Basis

12/27/2010

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
3153	43047513400000	LOCKED	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 921-35A4CS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	NENE 35 9S 21E S 524 FNL 445 FEL		GPS Coord (UTM)	627169E	4428421N

Geologic Statement of Basis

Kerr McGee proposes to set 2,310' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 2,000'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of Section 35. The well is listed as 2,640 feet deep and used for drilling water. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect. Any usable ground water.

 Brad Hill
APD Evaluator

 12/15/2010
Date / Time
Surface Statement of Basis

The general area is within the Natural Buttes Unit in the lower portion of the Sand Wash Drainage of Uintah, County, approximately 36 air miles and 43.0 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads to the site. Topography of the Sand Wash area is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs, furnishing water for antelope or livestock.

The NBU 921-35A pad will be created by slightly enlarging the existing pad of the CIGE 541 and NBU 921-35AT gas wells. It will be primarily enlarged to the east and north. Four gas wells, to be directionally drilled, will be added. They are the NBU 921-35B1BS, 921-35A1BS, 921-35B4BS and 921-35A4CS. The pad begins at the foot of an existing vertical cut into a side-hill on the south. It extends east into a gentle area. The pad will be widened from 47 to 60 feet between Corners 8 and 9. No drainages intersect the site and no diversions are needed. The reserve pit is proposed on the north and has a slight fill on the northeast corner. With the planned 15 foot outer bench and the spoils pile beyond the bench, it should be stable. A major tributary of Sand Wash is about 1/2 mile to the east of the site and the White River about 3 mile down drainage. The selected site appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the only site in the immediate area.

Both the surface and minerals are owned by SITLA. Jim Davis represented SITLA at the pre-site investigation. Mr. Davis had no concerns pertaining to this location excepted as covered above. SITLA provided a seed mix to be used when reclaiming the site.

Ben Williams represented the Utah Division of Wildlife Resources. Mr. Williams stated the area is classified as crucial yearlong antelope habitat but recommended no restrictions for this species. No other wildlife will be significantly affected.

Application for Permit to Drill
Statement of Basis

12/27/2010

Utah Division of Oil, Gas and Mining

Page 2

Floyd Bartlett
Onsite Evaluator

11/30/2010
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 30 mils with a double felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/18/2010

WELL NAME: NBU 921-35A4CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

CONTACT: Danielle Piernot

API NO. ASSIGNED: 43047513400000

PHONE NUMBER: 720 929-6156

PROPOSED LOCATION: NENE 35 090S 210E

SURFACE: 0524 FNL 0445 FEL

BOTTOM: 1079 FNL 0494 FEL

COUNTY: UINTAH

LATITUDE: 39.99830

UTM SURF EASTINGS: 627169.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: ML 22582

SURFACE OWNER: 3 - State

Permit Tech Review: ☒

Engineering Review: ☒

Geology Review: ☒

LONGITUDE: -109.51030

NORTHINGS: 4428421.00

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ **PLAT**

☒ **Bond:** STATE/FEE - 22013542

☐ **Potash**

☒ **Oil Shale 190-5**

☐ **Oil Shale 190-3**

☐ **Oil Shale 190-13**

☒ **Water Permit:** Permit #43-8496

☐ **RDCC Review:**

☐ **Fee Surface Agreement**

☒ **Intent to Commingle**

Commingle Approved

LOCATION AND SITING:

☐ **R649-2-3.**

Unit: NATURAL BUTTES

☐ **R649-3-2. General**

☐ **R649-3-3. Exception**

☒ **Drilling Unit**

Board Cause No: Cause 173-14

Effective Date: 12/2/1999

Siting: 460' Fr U Bdry & Uncommitted Tracts

☒ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations: 3 - Commingle - ddoucet
5 - Statement of Basis - bhill
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason
25 - Surface Casing - hmadonald



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 921-35A4CS
API Well Number: 43047513400000
Lease Number: ML 22582
Surface Owner: STATE
Approval Date: 12/27/2010

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingling:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

In accordance with Utah Admin. R. 649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Surface casing shall be cemented to the surface.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:



For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-35A4CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0524 FNL 0445 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047513400000
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 3/17/2011 <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON MARCH 17, 2011 AT 8:00 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 3/17/2011		

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By ANDY LYTLE Phone Number 720.929.6100
Well Name/Number NBU 921-35A4CS
Qtr/Qtr NENE Section 35 Township 9S Range 21E
Lease Serial Number ML-22582
API Number 4304751340

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 03/17/2011 08:00 HRS AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

RECEIVED

MAR 14 2011

DIV. OF OIL, GAS & MINING

Date/Time 04/26/2011 08:00 HRS AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.781.7048 OR LOVEL YOUNG AT 435.828.0986

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751340	NBU 921-35A4CS		NENE	35	09S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	3/17/2011		3/23/11		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 03/17/2011 AT 8:00 HRS. <i>BHL = NENE</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

ANDY LYTLE

Name (Please Print)

Signature

REGULATORY ANALYST

3/17/2011

Title

Date

RECEIVED

MAR 17 2011

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-35A4CS			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0524 FNL 0445 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047513400000			
10. FIELD and POOL or WILDCAT: NATURAL BUTTES		COUNTY: UINTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		STATE: UTAH			
TYPE OF SUBMISSION <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/1/2011	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON MARCH 30, 2011. DRILLED 11" SURFACE HOLE TO 2535'. RAN 8 5/8" 28# IJ55 SURFACE CASING. CEMENTED SURFACE CASING. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.					
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY					
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100			
SIGNATURE N/A		TITLE Regulatory Analyst			
DATE 4/4/2011					

BLM - Vernal Field Office - Notification Form

Operator KERR MCGEE Rig Name/# H&P 311
Submitted By DOUG BARONE Phone Number 435- 790-1884
Well Name/Number NBU 921-35A4CS
Qtr/Qtr NE/NE Section 35 Township 9S Range 21E
Lease Serial Number ML 22582
API Number 43-047-51340

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

RECEIVED

MAY 23 2011

DEPT. OF OIL, GAS & MINING

Date/Time ____ AM ☐ PM ☐

BOPE

- ☒ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time 5/23/2011 06:00 AM ☒ PM ☐

Remarks _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582			
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES			
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-35A4CS			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0524 FNL 0445 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047513400000			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: NATURAL BUTTES			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/30/2011 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2535' TO 9672' ON MAY 28, 2011. RAN 4-1/2" 11.6# I-80 PRODUCTION CASING TO 9395'. RAN 4 1/2" 11.6# P110 CSG FROM 9395' TO 9661'. CEMENTED PRODUCTION CASING TO 9661'. RELEASED H&P RIG 311 ON MAY 30, 2011 @ 10:00 HRS. DETAILS OF CEMENTED CASING JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES. THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM.					
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY					
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100			
SIGNATURE N/A		TITLE Regulatory Analyst			
DATE 5/31/2011					

BLM - Vernal Field Office - Notification Form

Operator KERR MCGEE Rig Name/# H&P 311
Submitted By PAT CAIN Phone Number 435- 790-1884
Well Name/Number NBU 921-35A4CS
Qtr/Qtr NE/NE Section 35 Township 9S Range 21E
Lease Serial Number ML 22582
API Number 43-047-51340

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
☐ Intermediate Casing
☒ Production Casing
☐ Liner
☐ Other

RECEIVED

MAY 31 2011

DIV. OF OIL, GAS & MINING

Date/Time 5/29/2011 7:30 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time ____ AM ☐ PM ☐

Remarks _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-35A4CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0524 FNL 0445 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 35 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047513400000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/15/2011	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> ALTER CASING	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 08/15/2011 AT 3:00 PM. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 8/16/2011	

RECEIVED

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

JUN 28 2012

AMENDED REPORT ☐ FORM 8
(highlight changes)

DIV. OF OIL, GAS & MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL:		OIL WELL <input type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	OTHER <input type="checkbox"/>	5. LEASE DESIGNATION AND SERIAL NUMBER: ML 22582
b. TYPE OF WORK:		NEW WELL <input checked="" type="checkbox"/>	HORIZ. LATS. <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	RE-ENTRY <input type="checkbox"/>	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR:		KERR MCGEE OIL & GAS ONSHORE, L.P.				7. UNIT or CA AGREEMENT NAME UTU63047A
3. ADDRESS OF OPERATOR:		P.O. BOX 173779 DENVER CO 80217				8. WELL NAME and NUMBER: NBU 921-35A4CS <input checked="" type="checkbox"/>
4. LOCATION OF WELL (FOOTAGES)		AT SURFACE: NENE 524 FNL 445 FEL S35, T9S, R21E				9. API NUMBER: 4304751340
		AT TOP PRODUCING INTERVAL REPORTED BELOW: NENE 1058 FNL 504 FEL S35, T9S, R21E				10. FIELD AND POOL, OR WILDCAT NATURAL BUTTES
		AT TOTAL DEPTH: NENE 1071 FNL 494 FEL S35, T9S, R21E <i>BHL by HSM</i>				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 35 9S 21E S
14. DATE SPUDDED: 3/17/2011		15. DATE T.D. REACHED: 5/28/2011		16. DATE COMPLETED: 8/15/2011		12. COUNTY UINTAH
				ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>		13. STATE UTAH
18. TOTAL DEPTH: MD 9,672 TVD 9,628		19. PLUG BACK T.D.: MD 9,616 TVD 9,572		20. IF MULTIPLE COMPLETIONS, HOW MANY? *		17. ELEVATIONS (DF, RKB, RT, GL): 4990 GL

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)		23.	
RCBL-CHI TRIPLE COMBO-RMTE X X X		WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)	

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
11	8 5/8" IJ-55	28#		2,523		975		0	
7 7/8"	4 1/2" I-80	11.6#		9,395		1,534		260	
7 7/8"	4 1/2" P110	11.6#	9,395	9,661					

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	8,941							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	7,332	7,334			7,332 7,334	0.36	8	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) MESAVERDE	7,438	9,538			7,438 9,538	0.36	205	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7332 - 9538	PUMP 10,942 BBLs SLICK H2O & 227,420 LBS SAND

29. ENCLOSED ATTACHMENTS:

- ☐ ELECTRICAL/MECHANICAL LOGS
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION
☐ GEOLOGIC REPORT
☐ CORE ANALYSIS
☐ DST REPORT
☒ DIRECTIONAL SURVEY
☐ OTHER: _____

30. WELL STATUS:

PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 8/15/2011		TEST DATE: 8/22/2011		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,472	WATER – BBL: 650	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 2,100	CSG. PRESS. 3,000	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,472	WATER – BBL: 650	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,427				
BIRD'S NEST	1,738				
MAHOGANY	2,255				
WASATCH	4,707	7,346			
MESAVERDE	7,346	9,672	TD		

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological well history, perforation report and final survey.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDREW LYTLE

TITLE REGULATORY ANALYST

SIGNATURE 

DATE 9/27/2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation

- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35A4CS [GREEN]			Spud Conductor: 3/17/2011			Spud Date: 3/30/2011			
Project: UTAH-UINTAH			Site: NBU 921-35A PAD				Rig Name No: H&P 311/311, CAPSTAR 310/310		
Event: DRILLING			Start Date: 3/6/2011				End Date: 5/30/2011		
Active Datum: RKB @5,015.01ft (above Mean Sea Level)				UVM: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/524/E/0/445/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
3/30/2011	13:30 - 17:00	3.50	DRLSUR	01	C	P		SKID RIG TO WELL 4/4 NBU 921-35A4CS	
	17:00 - 18:00	1.00	DRLSUR	14	A	P		WELD ON CONDUCTOR AND RIG UP FLOW LINE	
	18:00 - 22:00	4.00	DRLSUR	08	A	Z		WORK ON SWIVEL HOSE AND WORK ON HYDRAULIC BOOM CYLINDER	
	22:00 - 22:30	0.50	DRLSUR	06	A	P		PICK UP NEW MUD MOTOR AND BIT PREPARE TO SPUD	
	22:30 - 0:00	1.50	DRLSUR	02	C	P		SPUD WELL DRILL 11" HOLE FROM 40' - 225' WOB 8-18 ROT 45-55 DHR 99 GPM 600 NO LOSSES AVE ROP 123 FT HR	
3/31/2011	0:00 - 3:00	3.00	DRLSUR	06	A	P		TOOH INSTALL DIRECTIONAL TOOLS ORIENT TO MUD MOTOR AND TIH REPLACE ROT RUBBER	
	3:00 - 13:30	10.50	DRLSUR	02	C	P		DRILL 11" HOLE F/ 225' - 1454' AVE ROP 117 FT HR WOB 18-22 ROT 45-55 DHR 99 GPM 600 NO LOSSES LAST SURVEY 9.88 DEG 187.61 AZI	
	13:30 - 14:00	0.50	DRLSUR	07	A	P		DAILY RIG SERVICE	
	14:00 - 0:00	10.00	DRLSUR	02	C	P		DRILL 11" HOLE F/ 1454' - 2326' AVE ROP 87 FT HR WOB 18-22 ROT 45-55 DHR 99 GPM 600 70% LOSSES LAST SURVEY 11.69 DEG 194.11 AZI	
4/1/2011	0:00 - 2:30	2.50	DRLSUR	02	C	P		DRILL 11" HOLE F/ 2326' - 2535' T.D. AVE ROP 87 FT HR WOB 18-22 ROT 45-55 DHR 99 GPM 600 70% LOSSES LAST SURVEY 11.69 DEG 194.11 AZI	
	2:30 - 3:00	0.50	DRLSUR	05	C	P		CIRCULATE AND CONDITON MUD PRIOR TO LDDS	
	3:00 - 7:00	4.00	DRLSUR	06	A	P		TOOH LAYING DOWN BREAK DOWN DIRECTIONAL TOOLS AND MUD MOTOR AND BIT	
	7:00 - 9:30	2.50	DRLSUR	12	C	P		RIG UP AND RUN 8.625 28# J55 CASING SHOE AT 2507' BAFFLE AT 2463'	
	9:30 - 13:30	4.00	DRLSUR					HOLD SAFETY MEETING W/ SUPERIOR WELL SERVICES CEMENTERS. INSTALL CEMENT HEAD ON TOP OF LANDING JT. PRESSURE TEST LINE TO 2000 PSI. PUMP 50 BBLS OF WATER AHEAD, PUMP 20 BBLS OF GEL WATER. PUMP 200 SX OF 11#, 3.52 YD, 23 GAL/SK HI FILL LEAD. PUMP 225 SX OF 15.8# 1.15 YD, 5 GAL/SK TAIL PREM. CLASS G CEMENT. DROP PLUG ON FLY, DISPLACE W/ 156 BBLS OF WATER. 490 PSI OF LIFT @ 2 BBLS/MIN RATE. 40 BBLS OF LEAD TO SURFACE. BUMP PLUG W/ 900 PSI. FLOAT HELD. PUMP 200 SX OF 15.8# PREMIUM 3% CALC CEMENT DOWN 1" DOWN BACK SIDE. TOTAL DOWN BACK SIDW 1000 (ADDITIONAL TOP OUT 350 SX)	

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35A4CS [GREEN]			Spud Conductor: 3/17/2011			Spud Date: 3/30/2011		
Project: UTAH-UINTAH			Site: NBU 921-35A PAD			Rig Name No: H&P 311/311, CAPSTAR 310/310		
Event: DRILLING			Start Date: 3/6/2011			End Date: 5/30/2011		
Active Datum: RKB @5,015.01ft (above Mean Sea Level)			UVM: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/524/E/0/445/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	13:30 - 13:30	0.00	DRLSUR					CONDUCTOR CASING: Cond. Depth set:40 Cement sx used:28 SPUD DATE/TIME:3/30/2011 22:30 SURFACE HOLE: Surface From depth:40 Surface To depth:2,535 Total SURFACE hours:24.50 Surface Casing size:8-5/8" # of casing joints ran:57 Casing set MD:2,507.0 # sx of cement:200/225/550 Cement blend (ppg):11/15.8/15/8 Cement yield (ft3/sk):3.38/1.15/1.15 # of bbls to surface:0 Describe cement issues:NO CMT TO SURFACE Describe hole issues:85% RETURNS @ 2100'
5/23/2011	4:00 - 5:00	1.00	DRLPRO	01	C	P		SKID RIG, CENTER AND LEVEL RIG
	5:00 - 6:00	1.00	DRLPRO	01	B	P		SLIP & CUT DRILL LINE
	6:00 - 7:30	1.50	DRLPRO	14	A	P		NU BOP
	7:30 - 12:00	4.50	DRLPRO	15	A	P		PRESSURE TEST PIPE RAMS, BLIND RAMS, IBOP, FLOOR VALVE, KILL LINE, & KILL LINE VALVES, BOP WING VALVES, HCR VALVE, CHOKE LINE INNER & OUTER CHOKE VALVES, & MANIFOLD 250 PSI LOW/ 5 MINUTES, 5K HIGH FOR 10 MINUTES, TEST ANNULAR 250 LOW/5 MINUTES, 2500 HIGH/10 MINUTES, TEST SUPER CHOKE & CSG TO 1500 PSI FOR 30 MINUTES. FUNCTION TEST CLOSING UNIT.
	12:00 - 12:30	0.50	DRLPRO	01	B	P		INSTALL WEAR BUSHING
	12:30 - 13:00	0.50	DRLPRO	07	A	P		LUBRICATE RIG
	13:00 - 14:30	1.50	DRLPRO	06	A	P		PU Q506F W/ 6X16 JETS, MU BHA , ORIENT DIRECTIONAL TOOLS, TIH, TAG CMT AT 2309
	14:30 - 16:30	2.00	DRLPRO	02	F			DRILL OUT CMT & SHOE
	16:30 - 0:00	7.50	DRLPRO	02	D			DRILLED 2551 TO 3590, ' IN HRS, FPH. MADE 9 SLIDES, 123 TOTAL FEET IN 2.17 HOURS. WOB WAS 15-23K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 138 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 178 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1658/1248 PSI. ON/OFF BOTTOM TORQUE WAS 6/3 K. PU/SO/ROT WAS 138/97/112. CIRCULATING THE RESERVE PIT.
5/24/2011	0:00 - 8:00	8.00	DRLPRO	02	D	P		DRILLED 3590 TO 4940,1350 ' IN 8 HRS, 168 FPH. MADE 5 SLIDES, 69 TOTAL FEET IN 1.41 HOURS. WOB WAS 15-23K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 138 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 178 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1745/1422 PSI. ON/OFF BOTTOM TORQUE WAS 8/4 K. PU/SO/ROT WAS 145/109/126. CIRCULATING THE RESERVE PIT.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35A4CS [GREEN]		Spud Conductor: 3/17/2011		Spud Date: 3/30/2011	
Project: UTAH-UINTAH		Site: NBU 921-35A PAD		Rig Name No: H&P 311/311, CAPSTAR 310/310	
Event: DRILLING		Start Date: 3/6/2011		End Date: 5/30/2011	
Active Datum: RKB @5,015.01ft (above Mean Sea Level)		UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/524/E/0/445/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	8:00 - 16:30	8.50	DRLPRO	02	D	P		DRILLED 4940 TO 6131, 1191' IN 8.5 HRS, 140 FPH. MADE 3 SLIDES, 37 TOTAL FEET IN .83 HOURS. WOB WAS 15-23K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 138 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 178 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1807/1622 PSI. ON/OFF BOTTOM TORQUE WAS 8/4 K. PU/SO/ROT WAS 177/126/149. CIRCULATING THE RESERVE PIT. LUBRICATE RIG
	16:30 - 17:00	0.50	DRLPRO	07	A	P		
	17:00 - 0:00	7.00	DRLPRO	02	D	P		DRILLED 6131 TO 6720, 589' IN 7 HRS, 84 FPH. MADE 1 SLIDE, 16 TOTAL FEET IN .67 HOURS. WOB WAS 15-23K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 138 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 178 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1760/1390 PSI. ON/OFF BOTTOM TORQUE WAS 9/6 K. PU/SO/ROT WAS 190/130/157. CIRCULATING THE RESERVE PIT.
5/25/2011	0:00 - 4:00	4.00	DRLPRO	02	D	P		DRILLED 6720'-6987', 267' IN 4 HRS, 66.8 FPH. 100% ROTATING. WOB WAS 18-20K, PUMP #1 AT 95 SPM, 428 GPM, MOTOR TURNING AT 98 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 143 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 200-300 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1700/1370 PSI. ON/OFF BOTTOM TORQUE WAS 10/9 K. PU/SO/ROT WAS 200/133/160. MW-9.0, VIS-34. LOSING 5-10 BPH, SLOWED THE PUMPS DOWN TO TRY AND SLOW DOWN THE LOSES.
	4:00 - 5:00	1.00	DRLPRO	05	B	P		LOST ALL RETURNS, SLOWED PUMPS DOWN AND STARTED ADDING LCM. INCREASED LCM TO 12% AND SLOWLY RAMPED UP PUMP STROKES, 100% RETURNS.
	5:00 - 11:30	6.50	DRLPRO	02	D	P		DRILLED 6987'-7358', 371' IN 6.5 HRS, 57 FPH. 100% ROTATING. WOB WAS 18-20K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 114 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 159 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 200-300 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1900/1600 PSI. ON/OFF BOTTOM TORQUE WAS 11/10 K. PU/SO/ROT WAS 201/139/169. MW-9.7, VIS-34 WITH 12% LCM.
	11:30 - 12:30	1.00	DRLPRO	05	B	P		LOST ALL RETURNS, SLOWED PUMPS DOWN AND STARTED ADDING LCM. INCREASED LCM TO 20% AND SLOWLY RAMPED UP PUMP STROKES, 100% RETURNS.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35A4CS [GREEN]			Spud Conductor: 3/17/2011			Spud Date: 3/30/2011		
Project: UTAH-UINTAH			Site: NBU 921-35A PAD			Rig Name No: H&P 311/311, CAPSTAR 310/310		
Event: DRILLING			Start Date: 3/6/2011			End Date: 5/30/2011		
Active Datum: RKB @5,015.01ft (above Mean Sea Level)			UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/524/E/0/445/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:30 - 17:30	5.00	DRLPRO	02	D	P		DRILLED 7358'-7546', 188' IN 5 HRS, 37.6 FPH. MADE 1 SLIDE, 20' IN 50 MINUTES SO 24 FPH. WHEN WE RESUMED DRILLING WE WERE CLOSE TO THE TOP OF THE MESA VERDE SO WE SLOWED THE PUMPS DOWN TO 90 SPM. WOB WAS 18-21K, PUMP #1 AT 90 SPM, 405 GPM, MOTOR TURNING AT 93 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 133 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 200-300 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1650/1450 PSI. ON/OFF BOTTOM TORQUE WAS 6/7 K. PU/SO/ROT WAS 203/144/166. MW-10.1, VIS-34 WITH 20% LCM. RIG SERVICE.
	17:30 - 18:00	0.50	DRLPRO	07	A	P		
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILLED 7546'-7830', 284' IN 6 HRS, 47.3 FPH. 100% ROTATING. WOB WAS 18-22K, PUMP #2 AT 90 SPM, 405 GPM, MOTOR TURNING AT 93 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 133 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 250-350 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1800/1530 PSI. ON/OFF BOTTOM TORQUE WAS 9/9 K. PU/SO/ROT WAS 210/150/170. MW-10.3, VIS-34 WITH 20% LCM. RAISING MW VERY SLOWLY. SEEPAGE LOSES.
5/26/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 7830'-8112', 282' IN 6 HRS, 47 FPH. MADE 1 SLIDE, 15' IN 30 MINUTES, 7.5 FPH. WOB WAS 18-22K, PUMP #2 AT 90 SPM, 405 GPM, MOTOR TURNING AT 93 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 133 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 250-350 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1900/1650 PSI. ON/OFF BOTTOM TORQUE WAS 10/7 K. PU/SO/ROT WAS 220/155/175. MW-10.6, VIS-34 WITH 20% LCM. RAISING MW VERY SLOWLY. SEEPAGE LOSES.
	6:00 - 14:00	8.00	DRLPRO	02	D	P		DRILLED 8112'-8518', 406' IN 8 HRS, 50.8 FPH. MADE 1 SLIDE, 22' IN 45 MINUTES SO 29.3 FPH. WOB WAS 18-22K, PUMP #2 AT 90 SPM, 405 GPM, MOTOR TURNING AT 93 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 133 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 250-350 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2000/1750 PSI. ON/OFF BOTTOM TORQUE WAS 9/9 K. PU/SO/ROT WAS 220/157/179. MW-11.0, VIS-36 WITH 20% LCM. RAISING MW VERY SLOWLY. SEEPAGE LOSES.
	14:00 - 18:00	4.00	DRLPRO	05	B	P		LOST ALL RETURNS AT 8518', SLOWED PUMPS DOWN AND STARTED ADDING LCM. INCREASED LCM TO 30% AND SLOWLY RAMPED UP PUMP STROKES, 100% RETURNS. LOST 510 BBLs.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35A4CS [GREEN]			Spud Conductor: 3/17/2011			Spud Date: 3/30/2011		
Project: UTAH-UINTAH			Site: NBU 921-35A PAD			Rig Name No: H&P 311/311, CAPSTAR 310/310		
Event: DRILLING			Start Date: 3/6/2011			End Date: 5/30/2011		
Active Datum: RKB @5,015.01ft (above Mean Sea Level)			UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/524/E/0/445/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILLED 8516'-8773', 257' IN 6 HRS, 42.8 FPH. 100% ROTATING'. WOB WAS 18-22K, PUMP #2 AT 90 SPM, 405 GPM, MOTOR TURNING AT 93 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 133 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 250-350 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1950/1790 PSI. ON/OFF BOTTOM TORQUE WAS 9/9 K. PU/SO/ROT WAS 225/160/180. MW-11.3, VIS-36 WITH 20% LCM. RAISING MW VERY SLOWLY. SEEPAGE LOSES. TRIED TO TAKE A SURVEY AT 8584', COULD NOT GET A SIGNAL FROM THE EFIELD TOOL, DRILLED ANOTHER STD AND TRIED ANOTHER SURVEY AT 8678', AGAIN NO SIGNAL SO DRILLED ANOTHER STD TO 8773' AND TRIED AGAIN, NO SIGNAL. WE TRIED PUMPING NUT PLUG SWEEPS, CLEAN MUD SWEEPS TO TRY AND POSSIBLY CLEAN OFF THE MWD ANTENNA, NO SUCCESS. TALKED WITH JIM M AND WE DECIDED TO TOH AND REPLACE MWD. STILL HAVE 884' TO DRILL, BASED ON THE LAST SURVEY WE COULD HAVE BUILT UP TO 4 DEGREES BEFORE WE WERE OUT OF THE TARGET. PUT WELL ON THE BUSTER AT 8635' WITH A 11.3 PPG AND 15-20' FLARE, STARTED RAISING MW, RAISED MW TO 11.9 PPG AND TOOK WELL OFF THE BUSTER, NO FLARE. RIG SERVICE
5/27/2011	0:00 - 0:30	0.50	DRLPRO	07	A	P		
	0:30 - 12:00	11.50	DRLPRO	05	B	Z		STARTED CIRC/COND MUD FOR TRIP OUT. WELL WAS ON THE BUSTER WITH A 10-15' FLARE SO STARTED TO RAISE MW. FLARE QUIT AT 11.8 PPG. WHEN WE GOT TO AN 11.9 PPG, LOST ALL RETURNS, STARTED INCREASING LCM CONTENT AND BUILDING VOLUME, GOT BACK 25% RETURNS, INCREASED TO 75%. STARTED STAGING UP PUMPS BUT IT KEPT LOSING. INCREASED LCM CONTENT TO 34%. STAGED UP TO 75 SPM WITH ONLY SLIGHT SEEPAGE LOSES. MW AT 12.0 PPG, 36 VIS WITH 34% LCM. LOST 600 BBLs.
	12:00 - 12:30	0.50	DRLPRO	05	C	Z		FLOW CHECKED WELL, NO FLOW.
	12:30 - 16:30	4.00	DRLPRO	06	H	Z		PULLED 5 STDs, PUMPED SLUG AND TRIPPED OUT OF HOLE. NO TITE SPOTS OR OVERPULLS. FLOW CHECKED AT THE SHOE, NO FLOW.
	16:30 - 18:00	1.50	DRLPRO	06	H	Z		PULL EFIELD TOOL, DID NOT THAT MUCH LCM PACKED AROUND IT. TESTED TOOL ONCE WE GOT THE LCM OFF OF IT, WORKED. BROKE BIT OFF AND LD MM. PICKED UP NEW HUNTING 7:8 LOBE, 3.3 HR, 1.5 DEGREE BEND , 0.16 RPG MUD MOTOR WITH A HUGHES Q506F BIT WITH 6-16S, SERIAL # 7134372. SCRIBED MOTOR. CHECKED OPERATION OF DIRECTIONAL TOOLS AND MOTOR.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35A4CS [GREEN]		Spud Conductor: 3/17/2011		Spud Date: 3/30/2011	
Project: UTAH-UINTAH		Site: NBU 921-35A PAD		Rig Name No: H&P 311/311, CAPSTAR 310/310	
Event: DRILLING		Start Date: 3/6/2011		End Date: 5/30/2011	
Active Datum: RKB @5,015.01ft (above Mean Sea Level)		UVM: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/524/E/0/445/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	18:00 - 23:30	5.50	DRLPRO	06	H	Z		TRIPPED IN THE HOLE, NEVER SAW ANYTHING, STRAIGHT TO BOTTOM. STOPPED AND SURVEY AT THE THREE DEPTHS WE DID NOT SURVEY PREVIOUSLY. BROKE CIRCULATION AT 2600', 5000', 7500'. WASHED AND REAMED THE LAST 3 STDS DOWN, NO HARD WASHING OR REAMING. ONCE WE GOT CIRCULATING WE HAD A 10-15' FLARE FOR 15 MINUTES. FLARE WAS ABOUT 400 STROKES PRIOR TO BOTTOMS UP.
	23:30 - 0:00	0.50	DRLPRO	02	D	P		DRILLED 8773'-8785', 12' IN .5 HRS, 24 FPH. 100% ROTATING. WOB WAS 18-20K, PUMP #1 AT 90 SPM, 405 GPM, MOTOR TURNING AT 65 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 105 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 250-350 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2150/1800 PSI. ON/OFF BOTTOM TORQUE WAS 11/9 K. PU/SO/ROT WAS 220/150/178. MW-12.0, VIS-36 WITH 34% LCM. STARTED TO HAVE SEEPAGE SO THAT IS WHY WE BACKED THE SPM DOWN.
5/28/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 8785'-8994', 209' IN 6 HRS, 34.8 FPH. 100% ROTATING. WOB WAS 20-22K, PUMP #1 AT 90 SPM, 405 GPM, MOTOR TURNING AT 65 RPM WITH TOP DRIVE AT 40 RPM FOR A TOTAL OF 105 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 250-350 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2200/1900 PSI. ON/OFF BOTTOM TORQUE WAS 11/9 K. PU/SO/ROT WAS 220/150/178. MW-12.0, VIS-36 WITH 34% LCM. STARTED TO HAVE SEEPAGE SO THAT IS WHY WE BACKED THE SPM DOWN. WILL TRY RAMPING STROKES UP.
	6:00 - 19:00	13.00	DRLPRO	02	D	P		DRILLED 8994'-9672', 678' IN 13 HRS, 52.2 FPH. 100% ROTATING. WOB WAS 23-25K, PUMP #1 AT 90 SPM, 405 GPM, MOTOR TURNING AT 65 RPM WITH TOP DRIVE AT 48 RPM FOR A TOTAL OF 113 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 250-350 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2350/2060 PSI. ON/OFF BOTTOM TORQUE WAS 11/9 K. PU/SO/ROT WAS 225/168/187. MW-12.2, VIS-42 WITH 34% LCM. STARTED TO HAVE SEEPAGE SO THAT IS WHY WE BACKED THE SPM DOWN. TRIED RAMPING STROKES UP TO 110 UNTIL WE WOULD START SEEPING THEN BACK THEN DOWN AGAIN.
	19:00 - 19:30	0.50	DRLPRO	07	A	P		RIG SERVICE.
	19:30 - 21:30	2.00	DRLPRO	05	C	P		CIRC 2 BOTTOMS UP, NO FLARE OR GAS. SLIGHT LOSSES. 12.2 PPG, 42 VIS WITH 34% LCM. FLOW CHECKED WELL, NO FLOW.
	21:30 - 0:00	2.50	DRLPRO	06	E	P		PUMPED SLUG AND STARTED TRIPPING OUT OF THE HOLE. NO TITE SPOTS OR OVERPULLS.
5/29/2011	0:00 - 5:00	5.00	DRLPRO	06	D	P		CONTINUED WIPER TRIP. NO TITE SPOTS OR OVERPULLS. FLOW CHECKED WELL AT CASING SHOE. TRIPPED BACK IN THE HOLE, NO TITE SPOTS. BROKE CIRCULATION AT 2500', 5000' AND 7500'. WENT STRAIGHT TO BOTTOM, NO FILL.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35A4CS [GREEN]		Spud Conductor: 3/17/2011		Spud Date: 3/30/2011	
Project: UTAH-UINTAH		Site: NBU 921-35A PAD			Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING		Start Date: 3/6/2011		End Date: 5/30/2011	
Active Datum: RKB @5,015.01ft (above Mean Sea Level)			UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/524/E/0/445/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	5:00 - 7:30	2.50	DRLPRO	05	C	P		CIRCULATED TWO BOTTOMS UP, PUT WELL ON GAS BUSTER WITH A 10-20' FLARE FOR 30 MINUTES. SAW NO GAS ON THE SECOND BOTTOMS UP. 12.2 PPG, 45 VIS WITH 30% LCM. RIGGING UP LAY DOWN CREW.
	7:30 - 17:30	10.00	CSG	06	D	P		LAI D DOWN DRILLPIPE, NO TITE SPOTS OR OVERPULLS. WELL TAKING PROPER FILL. LD DIRECTIONAL TOOLS, MUD MOTOR AND BIT. RIG SERVICE
	17:30 - 18:00	0.50	DRLPRO	07	A	P		PULLED WEAR BUSHING.
	18:00 - 18:30	0.50	CSG	06	J	P		RIGGED UP CASING RUNNING CREW.
	18:30 - 19:00	0.50	CSG	12	A	P		
	19:00 - 0:00	5.00	CSG	12	C	P		4.5" CASING WAS RUN AS FOLLOWS- MADE UP WITH THREAD LOCK, SHOE, SHOE TRACK-HCP110 AND FLOAT COLLAR. INSTALLED CENTRALIZER ON SHOE TRACK. RAN 5 MORE JTS HCP110, BTC, 11.6#, R3, RAN 160 JTS I80, BTC, 11.6#, R3. TOTAL JOINTS RAN 166 JTS OF 4.5", 11.6#, BTC, R3. SET 21' MARKER JOINTS AT 7518' AND 4847'. CASING AT 6800' AT REPORT TIME. FILLED AND CIRCULATE CASING AT 2350', 6100'.
	5/30/2011 0:00 - 2:00	2.00	CSG	12	C	P		CONTINUED RUNNING 4.5" PRODUCTION CASING. 4.5" CASING WAS RUN AS FOLLOWS- MADE UP WITH THREAD LOCK, SHOE, SHOE TRACK-HCP110 AND FLOAT COLLAR. INSTALLED CENTRALIZER ON SHOE TRACK. RAN 5 MORE JTS HCP110, BTC, 11.6#, R3, RAN 224 JTS I80, BTC, 11.6#, R3. TOTAL JOINTS RAN 230 JTS OF 4.5", 11.6#, BTC, R3. SET 21' MARKER JOINTS AT 7287' AND 4695'. SET CASING AT 9661' WITH FLOAT COLLAR AT 9617'. FILLED AND CIRCULATE CASING AT 2500', 6050'.
	2:00 - 3:30	1.50	CSG	12	A	P		FILLED CASING AND STARTED CIRCULATING AT 380 GPM AND 1000 PSI. RIGGED DOWN CASERS AND STARTED RIGGING UP CEMENTERS. HAD TO PUT WELL ON GAS BUSTER, HAD 10-20' FLARE FOR 15 MINUTES. DID NOT ANY GAS ON THE SECOND BOTTOMS UP.
	3:30 - 5:30	2.00	CSG	12	E	P		PRESSURE TESTED LINES TO 5000 PSI. PUMPED 40 BBLS OF H2O SPACER AHEAD, PUMPED 185 BBLS (490 SX OF 12.3#, 2.12 CFT/SX, 11.38 GAL/SK) LEAD PREMIUM LIGHT CEMENT. PUMPED 243 BBLS (1044 SX OF 14.3#, 1.31 YD, 5.90 GAL/SK) POZ PREMIUM 50/50 TAIL CEMENT. SHUT DOWN AND WASHED LINES, DROP 4.5" TOP PLUG, PUMP 149.5 BBLS OF H2O TREATED WITH BIOCIDES AND CLAY INHIBITOR. BUMPED PLUG AT 2650 PSI, PRESSURED UP CSG TO 3291 PSI AND HELD FOR 5 MIN. CHECKED FLOATS, FLOATS HELD, FLOWED BACK 2.00 BBLS. EST TOC TAIL @ 4200', LEAD @ 300'. HAD 100% RETURNS EXCEPT FOR THE LAST 10 BBLS AND GOT BACK 40 BBLS WATER AND 20 BBLS CEMENT BACK TO SURFACE.
	5:30 - 6:00	0.50	CSG	12	B	P		RIGGED DOWN CEMENTERS.
	6:00 - 6:30	0.50	CSG	14	A	P		ND BOPE.
	6:30 - 7:00	0.50	CSG	12	C	P		PICK UP BOP STACK AND SET C22 SLIPS WITH 100K. CUT OFF CASING AND LD JOINT.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35A4CS [GREEN]		Spud Conductor: 3/17/2011		Spud Date: 3/30/2011				
Project: UTAH-UINTAH		Site: NBU 921-35A PAD		Rig Name No: H&P 311/311, CAPSTAR 310/310				
Event: DRILLING		Start Date: 3/6/2011		End Date: 5/30/2011				
Active Datum: RKB @5,015.01ft (above Mean Sea Level)		UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/524/E/0/445/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 10:00	3.00	CSG	01	E	P		RIGGED DOWN, CLEANED MUD TANKS AND PREPARED TO SKID. RELEASED RIG ON MONDAY MAY 30TH AT 1000 HRS.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-35A4CS [GREEN]		Spud Conductor: 3/17/2011		Spud Date: 3/30/2011	
Project: UTAH-UINTAH		Site: NBU 921-35A PAD			Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING		Start Date: 3/6/2011		End Date: 5/30/2011	
Active Datum: RKB @5,015.01ft (above Mean Sea Level)		UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/524/E/0/445/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:00 - 10:00	0.00	CSG					<p>CONDUCTOR CASING:</p> <p>Cond. Depth set:40</p> <p>Cement sx used:28</p> <p>SPUD DATE/TIME:3/30/2011 22:30</p> <p>SURFACE HOLE:11</p> <p>Surface From depth:40</p> <p>Surface To depth:2,535</p> <p>Total SURFACE hours:24.50</p> <p>Surface Casing size:8.625"</p> <p># of casing joints ran:57</p> <p>Casing set MD:2,507.0</p> <p># sx of cement:200/225/550</p> <p>Cement blend (ppg.):11/15.8/15.8</p> <p>Cement yield (ft3/sk):3.38/1.15/1.15</p> <p># of bbls to surface:0</p> <p>Describe cement issues:NO CMT TO SURFACE</p> <p>Describe hole issues:85% RETURNS AT 2100'</p> <p>PRODUCTION:7.875</p> <p>Rig Move/Skid start date/time:5/23/2011 4:00</p> <p>Rig Move/Skid finish date/time:5/23/2011 5:00</p> <p>Total MOVE hours:1.0</p> <p>Prod Rig Spud date/time:5/23/2011 14:30</p> <p>Rig Release date/time:5/30/2011 10:00</p> <p>Total SPUD to RR hours:163.5</p> <p>Planned depth MD9,662</p> <p>Planned depth TVD9,603</p> <p>Actual MD:9,672</p> <p>Actual TVD:9,628</p> <p>Open Wells \$:</p> <p>AFE \$:</p> <p>Open wells \$/ft:</p> <p>PRODUCTION HOLE:</p> <p>Prod. From depth:2,551</p> <p>Prod. To depth:9,672</p> <p>Total PROD hours: 92</p> <p>Log Depth:N/A</p> <p>Production Casing size:4 1/2</p> <p># of casing joints ran:229</p> <p>Casing set MD:9,661.0</p> <p># sx of cement:490+1044=1534</p> <p>Cement blend (ppg.):12.3/14.3</p> <p>Cement yield (ft3/sk):2.12/1.31</p> <p>Est. TOC (Lead & Tail) or 2 Stage :LEAD 300', TAIL 4200'</p> <p>Describe cement issues:NONE</p> <p>Describe hole issues:NONE</p> <p>DIRECTIONAL INFO:</p> <p>KOP:199'</p> <p>Max angle:12.84 @ 2673'</p> <p>Departure:549.2'@ 9672</p> <p>Max dogleg MD:2.99 @3616'</p>

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 921-35A4CS [GREEN]		
Common Name	NBU 921-35A4CS		
Well Name	NBU 921-35A4CS	Wellbore No.	OH
Report No.	1	Report Date	6/17/2011
Project	UTAH-UINTAH	Site	NBU 921-35A PAD
Rig Name/No.		Event	COMPLETION
Start Date	6/17/2011	End Date	6/20/2011
Spud Date	3/30/2011	Active Datum	RKB @5,015.00ft (above Mean Sea Level)
UWI	NE/NE/0/9/S/21/E/35/0/0/26/PM/N/524/E/0/445/0/0		

1.3 General

Contractor		Job Method	PERFORATE	Supervisor	
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	7,332.0 (ft)-9,538.0 (ft)	Start Date/Time	8/1/2011 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	37	End Date/Time	8/1/2011 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	213	Net Perforation Interval	63.00 (ft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.38 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

1.5 Summary

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AM	WASATCH/			7,332.0	7,334.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	
														N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AMMESAVERDE/				7,438.0	7,440.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				7,492.0	7,494.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				7,588.0	7,591.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				7,663.0	7,666.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				7,741.0	7,744.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				7,764.0	7,765.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				7,792.0	7,794.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				7,823.0	7,824.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				7,851.0	7,852.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				7,896.0	7,898.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				7,939.0	7,941.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,016.0	8,017.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,033.0	8,034.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,101.0	8,102.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,124.0	8,125.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,212.0	8,213.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,269.0	8,270.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,302.0	8,304.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,344.0	8,345.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,364.0	8,366.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,398.0	8,399.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
12:00AMMESAVERDE/				8,523.0	8,526.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,592.0	8,595.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,743.0	8,746.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,798.0	8,800.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,835.0	8,836.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,873.0	8,875.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				8,992.0	8,994.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,036.0	9,037.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,086.0	9,088.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,121.0	9,122.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,235.0	9,236.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,310.0	9,311.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,355.0	9,357.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,414.0	9,416.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
12:00AMMESAVERDE/				9,537.0	9,538.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35A4CS [GREEN]			Spud Conductor: 3/17/2011			Spud Date: 3/30/2011		
Project: UTAH-UINTAH			Site: NBU 921-35A PAD				Rig Name No:	
Event: COMPLETION			Start Date: 6/17/2011			End Date: 6/20/2011		
Active Datum: RKB @5,015.00ft (above Mean Sea Level)			UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/524/E/0/445/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/17/2011	9:00 - 11:00	2.00	COMP	46	E	P		MOVE TO LOCATION, WAIT ON WEST ROC TO FINISH HOOKING UP WELL HEADS
	11:00 - 12:00	1.00	COMP	47	A	P		RU, ND WH, NU BOP.
	12:00 - 17:00	5.00	COMP	31	I			PU 3 7/8 BIT & 2 3/8 TBG, RIH TAG FILL @ 180', PU SWIVEL, BRAKE CIRCULATION, C/O TO 3445' SWI,SDFWE
6/20/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, RUNNING PIPE.
	7:30 - 10:30	3.00	COMP	31	I	P		FINISH PU 2 3/8 TBG, TAGED FILL @ 9555' C/O TO PBTD @ 9614'.
	10:30 - 15:00	4.50	COMP	31		P		POOH, LAY DOWN TBG ON FLOAT.
	15:00 - 17:00	2.00	COMP	47	A	P		RD, RU ON NEXT WELL OVER.
8/1/2011	7:00 - 7:15	0.25	COMP	48		P		HSM,

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35A4CS [GREEN]		Spud Conductor: 3/17/2011		Spud Date: 3/30/2011	
Project: UTAH-UINTAH		Site: NBU 921-35A PAD			Rig Name No:
Event: COMPLETION		Start Date: 6/17/2011		End Date: 6/20/2011	
Active Datum: RKB @5.015.00ft (above Mean Sea Level)		UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/524/E/0/445/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 17:00	9.75	COMP	36	E	P		<p>PERF & FRAC FOLLOWING WELL AS PER DESIGN W/ 30/50 MESH SAND & SLK WTR. ALL CBP'S ARE HALIBURTON 8K CBP'S. REFER TO STIM PJR FOR FLUID, SAND AND CHEMICAL VOLUME PUM'D</p> <p>FRAC STG #1] WHP=1,935#, BRK DN PERFS=3,128#, @=4.8 BPM, INJ RT=50.5, INJ PSI=6,026#, INITIAL ISIP=2,604#, INITIAL FG=.72, FINAL ISIP=2,893#, FINAL FG=.75, AVERAGE RATE=50.3, AVERAGE PRESSURE=5,435#, MAX RATE=50.8, MAX PRESSURE=6,116#, NET PRESSURE INCREASE=289#, 21/24 86% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #2] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=9,266', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #2] WHP=470#, BRK DN PERFS=3,338#, @=4.3 BPM, INJ RT=50.3, INJ PSI=5,852#, INITIAL ISIP=2,519#, INITIAL FG=.72, FINAL ISIP=2,909#, FINAL FG=.76, AVERAGE RATE=50.7, AVERAGE PRESSURE=5,352#, MAX RATE=51, MAX PRESSURE=6,027#, NET PRESSURE INCREASE=390#, 21/21 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,905', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #3] WHP=763#, BRK DN PERFS=3,360#, @=4.4 BPM, INJ RT=50.6, INJ PSI=5,568#, INITIAL ISIP=1,675#, INITIAL FG=.63, FINAL ISIP=2,558#, FINAL FG=.73, AVERAGE RATE=50.7, AVERAGE PRESSURE=5,370#, MAX RATE=51.3, MAX PRESSURE=5,933#, NET PRESSURE INCREASE=883#, 18/24 75% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,625', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>SWIFN.</p> <p>HSM, PERF & frac</p>
8/2/2011	6:45 - 7:00	0.25	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35A4CS [GREEN]		Spud Conductor: 3/17/2011		Spud Date: 3/30/2011	
Project: UTAH-UINTAH		Site: NBU 921-35A PAD			Rig Name No:
Event: COMPLETION		Start Date: 6/17/2011		End Date: 6/20/2011	
Active Datum: RKB @5,015.00ft (above Mean Sea Level)		UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/524/E/0/445/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 7:00	0.00	COMP	36	E	P		<p>FRAC STG #4] WHP=1,884#, BRK DN PERFS=3,470#, @=4.3 BPM, INJ RT=49.5, INJ PSI=4,734#, INITIAL ISIP=2,104#, INITIAL FG=68, FINAL ISIP=2,721#, FINAL FG=76, AVERAGE RATE=49.4, AVERAGE PRESSURE=4,557#, MAX RATE=49.8, MAX PRESSURE=5,306#, NET PRESSURE INCREASE=617#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,429', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #5] WHP=1,230#, BRK DN PERFS=4.6#, @=4.6 BPM, INJ RT=46.9, INJ PSI=6,000#, INITIAL ISIP=2,461#, INITIAL FG=74, FINAL ISIP=2,750#, FINAL FG=77, AVERAGE RATE=50.4, AVERAGE PRESSURE=4,878#, MAX RATE=51.1, MAX PRESSURE=6,481#, NET PRESSURE INCREASE=289#, 17/24 71% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=8,155', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #6] WHP=1,128#, BRK DN PERFS=2,964#, @=4.2 BPM, INJ RT=48, INJ PSI=5,455#, INITIAL ISIP=1,420#, INITIAL FG=62, FINAL ISIP=2,265#, FINAL FG=72, AVERAGE RATE=52.4, AVERAGE PRESSURE=4,922#, MAX RATE=53.3, MAX PRESSURE=6,114#, NET PRESSURE INCREASE=845#, 16/24 66% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #7] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,882', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #7] WHP=2,208#, BRK DN PERFS=2,177#, @=3.7 BPM, INJ RT=51.4, INJ PSI=4,500#, INITIAL ISIP=1,972#, INITIAL FG=69, FINAL ISIP=2,273#, FINAL FG=73, AVERAGE RATE=51.6, AVERAGE PRESSURE=4,314#, MAX RATE=52, MAX PRESSURE=4,993#, NET PRESSURE INCREASE=301#, 24/24 100% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>SWIFN.</p> <p>HSM</p>
8/3/2011	7:00 - 7:15	0.25	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35A4CS [GREEN]		Spud Conductor: 3/17/2011	Spud Date: 3/30/2011
Project: UTAH-UINTAH		Site: NBU 921-35A PAD	Rig Name No:
Event: COMPLETION		Start Date: 6/17/2011	End Date: 6/20/2011
Active Datum: RKB @5,015.00ft (above Mean Sea Level)		UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/524/E/0/445/0/0	

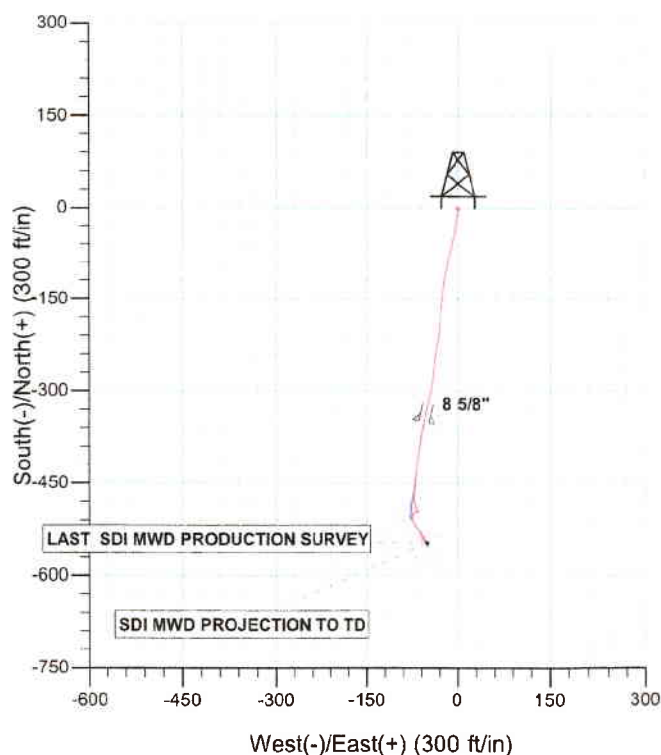
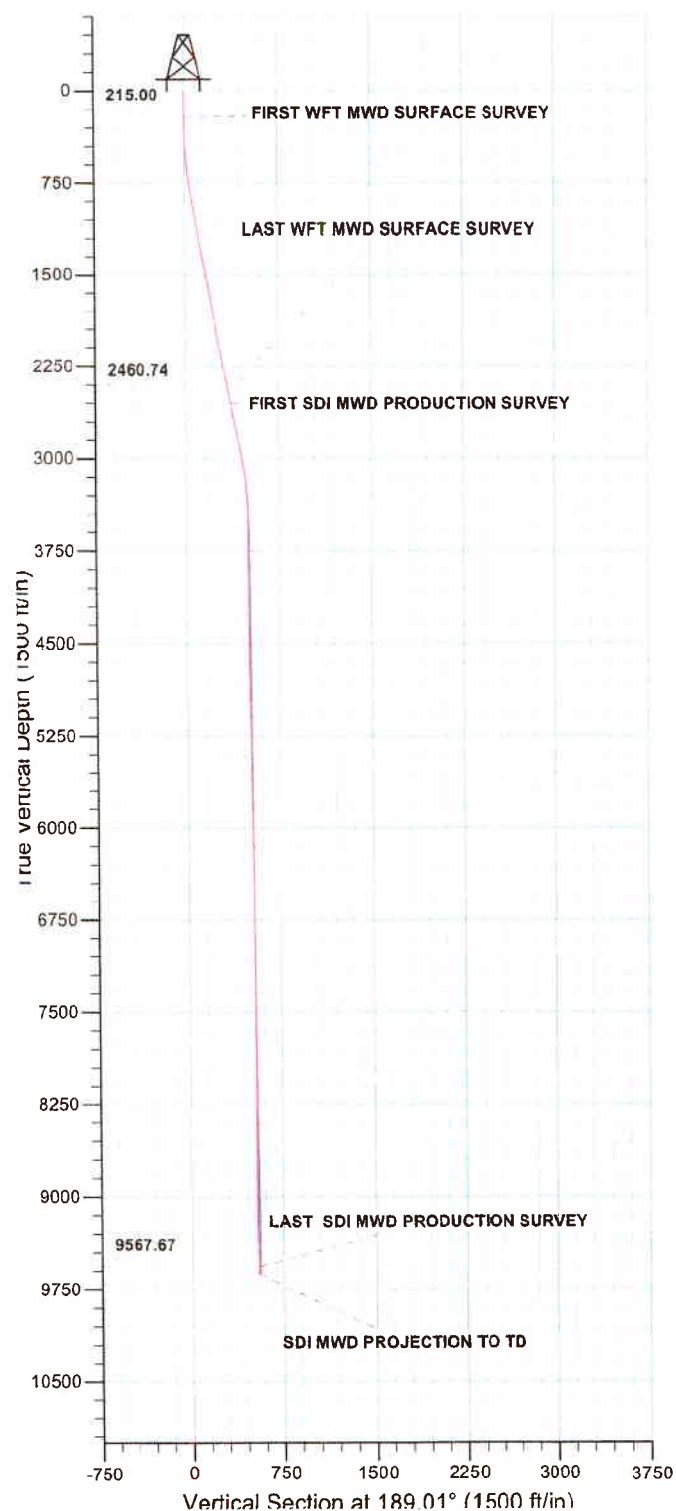
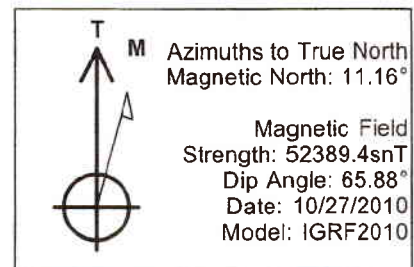
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 7:15	0.00	COMP	36	E	P		<p>PERF STG #8] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,696', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #8] WHP=2,204#, BRK DN PERFS=3,653#, @=3.4 BPM, INJ RT=44, INJ PSI=5,636#, INITIAL ISIP=2,119#, INITIAL FG=.72, FINAL ISIP=2,307#, FINAL FG=.74, AVERAGE RATE=48.3, AVERAGE PRESSURE=5,211#, MAX RATE=49.5, MAX PRESSURE=5,911#, NET PRESSURE INCREASE=188#, 15/24 64% CALC PERFS OPEN. X OVER TO WIRE LINE</p> <p>PERF STG #9] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @=7,524', PERF MESAVERDE USING 3-1/8 EXPEND, 23 GRM, 0.36" HOLE. AS PERSAY IN PROCEDURE, X OVER TO FRAC CREW</p> <p>FRAC STG #9] WHP=1,337#, BRK DN PERFS=2,739#, @=4.2 BPM, INJ RT=47.1, INJ PSI=3,896#, INITIAL ISIP=1,390#, INITIAL FG=.63, FINAL ISIP=2,284#, FINAL FG=.75, AVERAGE RATE=47.4, AVERAGE PRESSURE=3,661#, MAX RATE=47.7, MAX PRESSURE=4,182#, NET PRESSURE INCREASE=894#, 22/24 92% CAL PERFS OPEN, X OVER TO WIRELINE</p> <p>SET HALIBURTON 8K CBP FOR TOP KILL @=7,282', RDMO</p> <p>TOTAL FLUID PUMP'D=10,942 BBLS TOTAL SAND PUMP'D=227,420# HSM & JSA W/ROYAL WELL SERVICE.</p>
8/12/2011	6:45 - 7:00	0.25	COMP	48		P		<p>MIRU - SPOT EQUIP. WHP = 0 PSI. NDWH, NU BOPs. PREP & TALLY TBG. PU 3 7/8 BIT, POBS & XN NIPPLE. RIH ON 229 JTS NEW 2 3/8 4.7# L80 TBG. TAG FILL @ 7265'. LD 2 JT. RD TBG EQUIP, RU PWR SWVL & PMP. EOT @ 7213'. SWI - SDFWE. PREP TO D/O 9 CBPs ON MONDAY 8/15/11.</p>
	7:00 - 14:00	7.00	COMP	31	I	P		
8/15/2011	6:45 - 7:00	0.25	COMP	48		P		<p>HSM & JSA W/ROYAL WELL SERVICE.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-35A4CS [GREEN]		Spud Conductor: 3/17/2011		Spud Date: 3/30/2011	
Project: UTAH-UINTAH		Site: NBU 921-35A PAD		Rig Name No:	
Event: COMPLETION		Start Date: 6/17/2011		End Date: 6/20/2011	
Active Datum: RKB @5,015.00ft (above Mean Sea Level)		UWI: NE/NE/0/9/S/21/E/35/0/0/26/PM/N/524/E/0/445/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 16:00	9.00	COMP	44	D	P		WHP = 0 PSI. R/U PWR SWVL & PMP. EST CIRC. PT BOPs TO 3000 PSI & HOLD 15 MIN. (25 PSI LOSS). RIH TAG FILL @ 7265'. C/O SND & D/O CBPs/ HALCO CBP @ C/O FILL D/O CBP DIFF PSI FCP CBP #1 @ 7282' 36 FT 07 MIN 0 PSI 0 PSI CBP #2 @ 7524' 36 FT 13 MIN 200 PSI 150 PSI CBP #3 @ 7696' 19 FT 15 MIN 500 PSI 200 PSI CBP #4 @ 7887' 31 FT 11 MIN 600 PSI 400 PSI CBP #5 @ 8160' 27 FT 07 MIN 600 PSI 300 PSI CBP #6 @ 8429' 28 FT 09 MIN 400 PSI 1000 PSI CBP #7 @ 8625' 23 FT 07 MIN 400 PSI 700 PSI CBP #8 @ 8905' 84 FT 05 MIN 100 PSI 950 PSI CBP #9 @ 9266' 30 FT 21 MIN 400 PSI 450 PSI RIH & TAG FILL @ 9576". C/O TO 9613'. (PBTD @ 9614"). FCP = 800 PSI. PMP 20 BBLS TMAC & CIRC WELL CLEAN. R/D PWR SWVL, R/U TBG EQUIP. LD 22 JTS ON FLOAT, (33 TOTAL ON FLOAT). LND TBG ON HNGR W/281 JTS NEW 2 3/8" 4.7# L80 TBG @ 8942.04'. RD FLOOR & TBG EQUIP. ND BOP, DROP BALL, NUWH. PMP OFF BIT W/40 BBLS TMAC @ 1400 PSI. WAIT 30 MIN FOR BIT TO FALL TO BTM. TURN WELL TO F.B.C. KB 25' HANGER 0.83' XN NIPPLE 1.33' TBG 281 JTS = 8913.56' XN NIPPLE @ 8940.05' EOT @ 8940.82' (314 JTS DLVRD - 33 JTS RTND) TWTR = 11,222 BBLS TWR = 1'530 BBLS TWLTR = 9,692 SICP = 0000 PSI, SITP = 0 PSI. 8/16/2011 7:00 - 33 A 7 AM FLBK REPORT: CP 3100#, TP 2300#, 20/64" CK, 48 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 2354 BBLS LEFT TO RECOVER: 8868 8/17/2011 7:00 - 33 A 7 AM FLBK REPORT: CP 3150#, TP 2200#, 20/64" CK, 32 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 3286 BBLS LEFT TO RECOVER: 7936 8/18/2011 7:00 - 33 A 7 AM FLBK REPORT: CP 3000#, TP 2100#, 20/64" CK, 30 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 4014 BBLS LEFT TO RECOVER: 7208

WELL DETAILS: NBU 921-35A4CS					
GL 4990 & KB 25' @ 5015.00R (HP 311)					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14528927.69	2057614.08	39° 59' 54.038 N	109° 30' 37.386 W



PROJECT DETAILS: Uintah County, UT UTM12	
Geodetic System:	Universal Transverse Mercator (US Survey Feet)
Datum:	NAD 1927 - Western US
Ellipsoid:	Clarke 1866
Zone:	Zone 12N (114 W to 108 W)
Location:	SEC 35 T9S R21E
System Datum:	Mean Sea Level



Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 921-35A Pad
NBU 921-35A4CS**

OH

Design: OH

Standard Survey Report

08 June, 2011



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35A Pad
Well: NBU 921-35A4CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35A4CS
TVD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
MD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Project Uintah County, UT UTM12

Map System: Universal Transverse Mercator (US Survey Feet)
Geo Datum: NAD 1927 - Western US
Map Zone: Zone 12N (114 W to 108 W)

System Datum: Mean Sea Level

Site NBU 921-35A Pad, SEC 35 T9S R21E

Site Position:
From: Lat/Long **Northing:** 14,528,933.77 usft **Latitude:** 39° 59' 54.103 N
Position Uncertainty: 0.00 ft **Easting:** 2,057,584.54 usft **Longitude:** 109° 30' 37.764 W
Slot Radius: 13.200 in **Grid Convergence:** 0.96 °

Well NBU 921-35A4CS, 524' FNL 445' FEL

Well Position **+N/-S** 0.00 ft **Northing:** 14,528,927.70 usft **Latitude:** 39° 59' 54.038 N
+E/-W 0.00 ft **Easting:** 2,057,614.07 usft **Longitude:** 109° 30' 37.386 W
Position Uncertainty 0.00 ft **Wellhead Elevation:** ft **Ground Level:** 4,990.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/27/2010	11.16	65.88	52,389

Design OH

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	189.01

Survey Program **Date** 06/08/2011

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
16.00	2,491.00	Survey # WEATHERFORD MWD SURFA	MWD	MWD - Standard
2,578.00	9,672.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16.00	0.00	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00
215.00	0.36	101.16	215.00	-0.12	0.61	0.02	0.18	0.18	0.00
FIRST WFT MWD SURFACE SURVEY									
307.00	1.67	152.01	306.98	-1.36	1.53	1.11	1.60	1.42	55.27
400.00	2.73	186.72	399.92	-4.76	1.90	4.40	1.78	1.14	37.32
494.00	3.88	202.49	493.76	-9.92	0.42	9.73	1.55	1.22	16.78
589.00	4.75	196.24	588.49	-16.67	-1.91	16.76	1.04	0.92	-6.58
685.00	6.75	187.24	684.01	-26.08	-3.73	26.34	2.28	2.08	-9.38
780.00	8.13	186.49	778.20	-38.29	-5.19	38.63	1.46	1.45	-0.79

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35A Pad
Well: NBU 921-35A4CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35A4CS
TVD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
MD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
875.00	9.19	193.99	872.12	-52.33	-7.78	52.90	1.63	1.12	7.89
969.00	10.56	191.49	964.73	-68.05	-11.32	68.99	1.53	1.46	-2.66
1,064.00	10.88	193.36	1,058.07	-85.31	-15.12	86.62	0.50	0.34	1.97
1,159.00	11.06	191.99	1,151.33	-102.95	-19.09	104.66	0.33	0.19	-1.44
1,254.00	10.38	188.11	1,244.68	-120.33	-22.19	122.32	1.04	-0.72	-4.08
1,349.00	10.63	185.24	1,338.09	-137.53	-24.19	139.62	0.61	0.26	-3.02
1,444.00	9.88	187.61	1,431.57	-154.33	-26.07	156.51	0.91	-0.79	2.49
1,540.00	10.56	184.86	1,526.04	-171.26	-27.91	173.52	0.87	0.71	-2.86
1,634.00	10.75	186.36	1,618.42	-188.56	-29.61	190.87	0.36	0.20	1.60
1,728.00	9.88	186.24	1,710.90	-205.29	-31.46	207.68	0.93	-0.93	-0.13
1,822.00	10.06	190.11	1,803.48	-221.39	-33.78	223.95	0.74	0.19	4.12
1,918.00	10.25	189.11	1,897.98	-238.08	-36.60	240.87	0.27	0.20	-1.04
2,012.00	10.13	185.11	1,990.50	-254.57	-38.66	257.48	0.76	-0.13	-4.26
2,107.00	10.50	185.11	2,083.96	-271.51	-40.18	274.45	0.39	0.39	0.00
2,203.00	10.50	187.36	2,178.36	-288.90	-42.07	291.92	0.43	0.00	2.34
2,298.00	11.38	193.99	2,271.63	-306.58	-45.45	309.91	1.61	0.93	6.98
2,393.00	11.69	194.11	2,364.71	-325.01	-50.06	328.84	0.33	0.33	0.13
2,491.00	11.35	192.32	2,460.74	-344.06	-54.54	348.35	0.50	-0.35	-1.83
LAST WFT MWD SURFACE SURVEY									
2,578.00	10.55	189.86	2,546.16	-360.27	-57.73	364.86	1.06	-0.92	-2.83
FIRST SDI MWD PRODUCTION SURVEY									
2,673.00	12.84	190.13	2,639.18	-379.23	-61.08	384.12	2.41	2.41	0.28
2,767.00	11.78	187.05	2,731.02	-399.04	-64.09	404.15	1.33	-1.13	-3.28
2,861.00	12.40	187.31	2,822.93	-418.57	-66.55	423.83	0.66	0.66	0.28
2,956.00	10.20	185.73	2,916.08	-437.06	-68.69	442.42	2.34	-2.32	-1.66
3,050.00	9.41	185.47	3,008.71	-452.99	-70.25	458.40	0.84	-0.84	-0.28
3,144.00	7.56	182.13	3,101.68	-466.82	-71.22	472.21	2.04	-1.97	-3.55
3,239.00	5.98	175.80	3,196.01	-478.00	-71.09	483.24	1.84	-1.66	-6.66
3,333.00	4.13	162.18	3,289.65	-486.11	-69.69	491.02	2.33	-1.97	-14.49
3,428.00	3.17	132.64	3,384.46	-491.14	-66.71	495.53	2.19	-1.01	-31.09
3,522.00	1.83	186.13	3,478.38	-494.40	-64.96	498.47	2.71	-1.43	56.90
3,616.00	2.54	264.26	3,572.33	-496.10	-67.19	500.50	2.99	0.76	83.12
3,711.00	2.35	251.56	3,667.24	-496.93	-71.14	501.93	0.60	-0.20	-13.37
3,805.00	0.62	246.02	3,761.21	-497.74	-73.43	503.10	1.84	-1.84	-5.89
3,899.00	0.61	174.94	3,855.20	-498.45	-73.85	503.86	0.76	-0.01	-75.62
3,993.00	1.24	175.69	3,949.19	-499.96	-73.73	505.34	0.67	0.67	0.80
4,088.00	0.44	29.02	4,044.19	-500.67	-73.48	505.99	1.71	-0.84	-154.39
4,182.00	0.44	37.72	4,138.18	-500.06	-73.08	505.34	0.07	0.00	9.26
4,276.00	0.53	182.13	4,232.18	-500.21	-72.87	505.45	0.98	0.10	153.63
4,371.00	1.32	188.89	4,327.17	-501.73	-73.06	506.98	0.84	0.83	7.12
4,465.00	0.88	299.72	4,421.16	-502.45	-73.85	507.81	1.95	-0.47	117.90
4,559.00	0.62	219.30	4,515.15	-502.48	-74.80	508.00	1.05	-0.28	-85.55
4,654.00	0.53	185.73	4,610.15	-503.32	-75.17	508.88	0.36	-0.09	-35.34

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35A Pad
Well: NBU 921-35A4CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35A4CS
TVD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
MD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,748.00	0.70	176.77	4,704.14	-504.32	-75.18	509.87	0.21	0.18	-9.53
4,842.00	0.79	156.29	4,798.13	-505.49	-74.89	510.98	0.30	0.10	-21.79
4,936.00	1.06	173.34	4,892.12	-506.95	-74.53	512.36	0.41	0.29	18.14
5,031.00	1.23	156.90	4,987.10	-508.76	-74.03	514.07	0.39	0.18	-17.31
5,125.00	1.06	174.92	5,081.09	-510.55	-73.55	515.77	0.42	-0.18	19.17
5,219.00	1.16	173.94	5,175.07	-512.36	-73.38	517.53	0.11	0.11	-1.04
5,314.00	0.53	57.23	5,270.06	-513.08	-72.91	518.17	1.55	-0.66	-122.85
5,408.00	0.24	83.51	5,364.06	-512.82	-72.35	517.83	0.35	-0.31	27.96
5,502.00	0.03	359.07	5,458.06	-512.78	-72.15	517.75	0.25	-0.22	-89.83
5,597.00	0.18	219.74	5,553.06	-512.87	-72.25	517.85	0.21	0.16	-146.66
5,691.00	1.41	144.69	5,647.05	-513.92	-71.67	518.81	1.46	1.31	-79.84
5,785.00	1.23	149.70	5,741.02	-515.74	-70.49	520.42	0.23	-0.19	5.33
5,880.00	1.41	147.59	5,836.00	-517.61	-69.35	522.08	0.20	0.19	-2.22
5,974.00	1.41	159.01	5,929.97	-519.66	-68.32	523.95	0.30	0.00	12.15
6,069.00	1.67	148.38	6,024.94	-521.93	-67.17	526.01	0.41	0.27	-11.19
6,163.00	0.62	144.07	6,118.92	-523.51	-66.16	527.41	1.12	-1.12	-4.59
6,257.00	0.70	144.86	6,212.91	-524.39	-65.53	528.18	0.09	0.09	0.84
6,351.00	0.70	143.63	6,306.90	-525.32	-64.86	529.00	0.02	0.00	-1.31
6,446.00	0.97	146.88	6,401.89	-526.46	-64.07	530.00	0.29	0.28	3.42
6,540.00	1.14	143.46	6,495.88	-527.88	-63.08	531.25	0.19	0.18	-3.64
6,635.00	1.14	143.10	6,590.86	-529.40	-61.95	532.57	0.01	0.00	-0.38
6,729.00	0.18	71.65	6,684.85	-530.10	-61.25	533.15	1.17	-1.02	-76.01
6,823.00	0.26	101.97	6,778.85	-530.10	-60.90	533.09	0.15	0.09	32.26
6,917.00	0.26	124.21	6,872.85	-530.26	-60.52	533.20	0.11	0.00	23.66
7,012.00	0.53	136.51	6,967.85	-530.70	-60.04	533.55	0.30	0.28	12.95
7,106.00	0.81	143.16	7,061.84	-531.55	-59.34	534.28	0.31	0.30	7.07
7,201.00	0.62	173.34	7,156.83	-532.59	-58.88	535.24	0.44	-0.20	31.77
7,295.00	0.98	172.35	7,250.82	-533.90	-58.71	536.50	0.38	0.38	-1.05
7,390.00	1.21	173.66	7,345.81	-535.70	-58.49	538.25	0.24	0.24	1.38
7,484.00	0.03	175.11	7,439.80	-536.71	-58.38	539.23	1.26	-1.26	1.54
7,578.00	0.00	171.14	7,533.80	-536.73	-58.38	539.26	0.03	-0.03	0.00
7,673.00	0.35	126.82	7,628.80	-536.91	-58.15	539.39	0.37	0.37	0.00
7,767.00	0.53	121.39	7,722.80	-537.31	-57.55	539.69	0.20	0.19	-5.78
7,862.00	0.30	331.81	7,817.80	-537.32	-57.29	539.66	0.85	-0.24	-157.45
7,956.00	0.09	250.15	7,911.79	-537.12	-57.47	539.50	0.32	-0.22	-86.87
8,050.00	0.47	184.97	8,005.79	-537.53	-57.58	539.92	0.47	0.40	-69.34
8,145.00	0.88	194.26	8,100.79	-538.63	-57.79	541.03	0.45	0.43	9.78
8,239.00	1.06	183.62	8,194.77	-540.20	-58.02	542.62	0.27	0.19	-11.32
8,334.00	0.44	356.06	8,289.77	-540.71	-58.10	543.14	1.58	-0.65	181.52
8,428.00	0.44	1.78	8,383.77	-539.99	-58.12	542.43	0.05	0.00	6.09
8,522.00	0.48	16.00	8,477.76	-539.25	-58.00	541.68	0.13	0.04	15.13
8,616.00	0.53	45.81	8,571.76	-538.57	-57.58	540.94	0.28	0.05	31.71
8,711.00	0.53	58.11	8,666.76	-538.03	-56.89	540.30	0.12	0.00	12.95
8,805.00	0.35	32.89	8,760.75	-537.56	-56.36	539.75	0.28	-0.19	-26.83

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35A Pad
Well: NBU 921-35A4CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35A4CS
TVD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
MD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,899.00	0.26	84.62	8,854.75	-537.30	-56.00	539.44	0.30	-0.10	55.03
8,993.00	0.62	117.88	8,948.75	-537.52	-55.33	539.55	0.45	0.38	35.38
9,088.00	0.70	147.50	9,043.74	-538.25	-54.57	540.15	0.36	0.08	31.18
9,182.00	0.94	135.78	9,137.73	-539.28	-53.72	541.04	0.31	0.26	-12.47
9,276.00	1.01	166.92	9,231.72	-540.64	-53.00	542.27	0.56	0.07	33.13
9,371.00	0.89	172.81	9,326.71	-542.19	-52.71	543.76	0.16	-0.13	6.20
9,465.00	0.79	153.83	9,420.70	-543.50	-52.34	544.99	0.31	-0.11	-20.19
9,559.00	1.07	136.65	9,514.69	-544.71	-51.45	546.05	0.42	0.30	-18.28
9,612.00	1.85	141.61	9,567.67	-545.75	-50.58	546.93	1.49	1.47	9.36
LAST SDI MWD PRODUCTION SURVEY									
9,672.00	1.85	141.61	9,627.64	-547.26	-49.37	548.24	0.00	0.00	0.00
SDI MWD PROJECTION TO TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
215.00	215.00	-0.12	0.61	FIRST WFT MWD SURFACE SURVEY
2,491.00	2,460.74	-344.06	-54.54	LAST WFT MWD SURFACE SURVEY
2,578.00	2,546.16	-360.27	-57.73	FIRST SDI MWD PRODUCTION SURVEY
9,612.00	9,567.67	-545.75	-50.58	LAST SDI MWD PRODUCTION SURVEY
9,672.00	9,627.64	-547.26	-49.37	SDI MWD PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____



Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 921-35A Pad
NBU 921-35A4CS**

OH

Design: OH

Survey Report - Geographic

08 June, 2011



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35A Pad
Well: NBU 921-35A4CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35A4CS
TVD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
MD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-35A Pad, SEC 35 T9S R21E				
Site Position:		Northing:	14,528,933.77 usft	Latitude:	39° 59' 54.103 N
From:	Lat/Long	Easting:	2,057,584.54 usft	Longitude:	109° 30' 37.764 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.96 °

Well	NBU 921-35A4CS, 524' FNL 445' FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,528,927.70 usft	Latitude:	39° 59' 54.038 N
	+E/-W	0.00 ft	Easting:	2,057,614.07 usft	Longitude:	109° 30' 37.386 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,990.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/27/2010	11.16	65.88	52,389

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	189.01	

Survey Program	Date	06/08/2011			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
16.00	2,491.00	Survey # WEATHERFORD MWD SURFA	MWD	MWD - Standard	
2,578.00	9,672.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,528,927.70	2,057,614.07	39° 59' 54.038 N	109° 30' 37.386 W
16.00	0.00	0.00	16.00	0.00	0.00	14,528,927.70	2,057,614.07	39° 59' 54.038 N	109° 30' 37.386 W
215.00	0.36	101.16	215.00	-0.12	0.61	14,528,927.59	2,057,614.69	39° 59' 54.037 N	109° 30' 37.378 W
FIRST WFT MWD SURFACE SURVEY									
307.00	1.67	152.01	306.98	-1.36	1.53	14,528,926.36	2,057,615.62	39° 59' 54.025 N	109° 30' 37.366 W
400.00	2.73	186.72	399.92	-4.76	1.90	14,528,922.97	2,057,616.05	39° 59' 53.991 N	109° 30' 37.361 W
494.00	3.88	202.49	493.76	-9.92	0.42	14,528,917.79	2,057,614.66	39° 59' 53.940 N	109° 30' 37.380 W
589.00	4.75	196.24	588.49	-16.67	-1.91	14,528,911.00	2,057,612.44	39° 59' 53.874 N	109° 30' 37.410 W
685.00	6.75	187.24	684.01	-26.08	-3.73	14,528,901.56	2,057,610.78	39° 59' 53.781 N	109° 30' 37.434 W
780.00	8.13	186.49	778.20	-38.29	-5.19	14,528,889.32	2,057,609.52	39° 59' 53.660 N	109° 30' 37.453 W
875.00	9.19	193.99	872.12	-52.33	-7.78	14,528,875.25	2,057,607.16	39° 59' 53.521 N	109° 30' 37.486 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35A Pad
Well: NBU 921-35A4CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35A4CS
TVD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
MD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
969.00	10.56	191.49	964.73	-68.05	-11.32	14,528,859.46	2,057,603.90	39° 59' 53.366 N	109° 30' 37.531 W
1,064.00	10.88	193.36	1,058.07	-85.31	-15.12	14,528,842.15	2,057,600.38	39° 59' 53.195 N	109° 30' 37.580 W
1,159.00	11.06	191.99	1,151.33	-102.95	-19.09	14,528,824.45	2,057,596.71	39° 59' 53.021 N	109° 30' 37.631 W
1,254.00	10.38	188.11	1,244.68	-120.33	-22.19	14,528,807.01	2,057,593.90	39° 59' 52.849 N	109° 30' 37.671 W
1,349.00	10.63	185.24	1,338.09	-137.53	-24.19	14,528,789.78	2,057,592.18	39° 59' 52.679 N	109° 30' 37.697 W
1,444.00	9.88	187.61	1,431.57	-154.33	-26.07	14,528,772.95	2,057,590.58	39° 59' 52.513 N	109° 30' 37.721 W
1,540.00	10.56	184.86	1,526.04	-171.26	-27.91	14,528,755.99	2,057,589.03	39° 59' 52.345 N	109° 30' 37.745 W
1,634.00	10.75	186.36	1,618.42	-188.56	-29.61	14,528,738.67	2,057,587.62	39° 59' 52.174 N	109° 30' 37.766 W
1,728.00	9.88	186.24	1,710.90	-205.29	-31.46	14,528,721.91	2,057,586.05	39° 59' 52.009 N	109° 30' 37.790 W
1,822.00	10.06	190.11	1,803.48	-221.39	-33.78	14,528,705.78	2,057,584.00	39° 59' 51.850 N	109° 30' 37.820 W
1,918.00	10.25	189.11	1,897.98	-238.08	-36.60	14,528,689.04	2,057,581.46	39° 59' 51.685 N	109° 30' 37.856 W
2,012.00	10.13	185.11	1,990.50	-254.57	-38.66	14,528,672.52	2,057,579.67	39° 59' 51.522 N	109° 30' 37.883 W
2,107.00	10.50	185.11	2,083.96	-271.51	-40.18	14,528,655.55	2,057,578.44	39° 59' 51.355 N	109° 30' 37.902 W
2,203.00	10.50	187.36	2,178.36	-288.90	-42.07	14,528,638.14	2,057,576.83	39° 59' 51.183 N	109° 30' 37.927 W
2,298.00	11.38	193.99	2,271.63	-306.58	-45.45	14,528,620.40	2,057,573.75	39° 59' 51.008 N	109° 30' 37.970 W
2,393.00	11.69	194.11	2,364.71	-325.01	-50.06	14,528,601.90	2,057,569.45	39° 59' 50.826 N	109° 30' 38.029 W
2,491.00	11.35	192.32	2,460.74	-344.06	-54.54	14,528,582.78	2,057,565.29	39° 59' 50.637 N	109° 30' 38.087 W
LAST WFT MWD SURFACE SURVEY									
2,578.00	10.55	189.86	2,546.16	-360.27	-57.73	14,528,566.52	2,057,562.37	39° 59' 50.477 N	109° 30' 38.128 W
FIRST SDI MWD PRODUCTION SURVEY									
2,673.00	12.84	190.13	2,639.18	-379.23	-61.08	14,528,547.50	2,057,559.34	39° 59' 50.290 N	109° 30' 38.171 W
2,767.00	11.78	187.05	2,731.02	-399.04	-64.09	14,528,527.65	2,057,556.66	39° 59' 50.094 N	109° 30' 38.210 W
2,861.00	12.40	187.31	2,822.93	-418.57	-66.55	14,528,508.08	2,057,554.52	39° 59' 49.901 N	109° 30' 38.241 W
2,956.00	10.20	185.73	2,916.08	-437.06	-68.69	14,528,489.55	2,057,552.69	39° 59' 49.718 N	109° 30' 38.269 W
3,050.00	9.41	185.47	3,008.71	-452.99	-70.25	14,528,473.60	2,057,551.40	39° 59' 49.561 N	109° 30' 38.289 W
3,144.00	7.56	182.13	3,101.68	-466.82	-71.22	14,528,459.75	2,057,550.67	39° 59' 49.424 N	109° 30' 38.301 W
3,239.00	5.98	175.80	3,196.01	-478.00	-71.09	14,528,448.58	2,057,550.98	39° 59' 49.313 N	109° 30' 38.299 W
3,333.00	4.13	162.18	3,289.65	-486.11	-69.69	14,528,440.49	2,057,552.51	39° 59' 49.233 N	109° 30' 38.281 W
3,428.00	3.17	132.64	3,384.46	-491.14	-66.71	14,528,435.51	2,057,555.58	39° 59' 49.184 N	109° 30' 38.243 W
3,522.00	1.83	186.13	3,478.38	-494.40	-64.96	14,528,432.28	2,057,557.38	39° 59' 49.151 N	109° 30' 38.221 W
3,616.00	2.54	264.26	3,572.33	-496.10	-67.19	14,528,430.55	2,057,555.18	39° 59' 49.135 N	109° 30' 38.249 W
3,711.00	2.35	251.56	3,667.24	-496.93	-71.14	14,528,429.65	2,057,551.25	39° 59' 49.126 N	109° 30' 38.300 W
3,805.00	0.62	246.02	3,761.21	-497.74	-73.43	14,528,428.80	2,057,548.97	39° 59' 49.118 N	109° 30' 38.330 W
3,899.00	0.61	174.94	3,855.20	-498.45	-73.85	14,528,428.09	2,057,548.56	39° 59' 49.111 N	109° 30' 38.335 W
3,993.00	1.24	175.69	3,949.19	-499.96	-73.73	14,528,426.58	2,057,548.71	39° 59' 49.096 N	109° 30' 38.333 W
4,088.00	0.44	29.02	4,044.19	-500.67	-73.48	14,528,425.88	2,057,548.97	39° 59' 49.089 N	109° 30' 38.330 W
4,182.00	0.44	37.72	4,138.18	-500.06	-73.08	14,528,426.48	2,057,549.36	39° 59' 49.095 N	109° 30' 38.325 W
4,276.00	0.53	182.13	4,232.18	-500.21	-72.87	14,528,426.34	2,057,549.57	39° 59' 49.094 N	109° 30' 38.322 W
4,371.00	1.32	188.89	4,327.17	-501.73	-73.06	14,528,424.81	2,057,549.41	39° 59' 49.079 N	109° 30' 38.325 W
4,465.00	0.88	299.72	4,421.16	-502.45	-73.85	14,528,424.09	2,057,548.63	39° 59' 49.072 N	109° 30' 38.335 W
4,559.00	0.62	219.30	4,515.15	-502.48	-74.80	14,528,424.04	2,057,547.68	39° 59' 49.072 N	109° 30' 38.347 W
4,654.00	0.53	185.73	4,610.15	-503.32	-75.17	14,528,423.20	2,057,547.32	39° 59' 49.063 N	109° 30' 38.352 W
4,748.00	0.70	176.77	4,704.14	-504.32	-75.18	14,528,422.19	2,057,547.33	39° 59' 49.053 N	109° 30' 38.352 W
4,842.00	0.79	156.29	4,798.13	-505.49	-74.89	14,528,421.03	2,057,547.64	39° 59' 49.042 N	109° 30' 38.348 W
4,936.00	1.06	173.34	4,892.12	-506.95	-74.53	14,528,419.58	2,057,548.03	39° 59' 49.027 N	109° 30' 38.344 W
5,031.00	1.23	156.90	4,987.10	-508.76	-74.03	14,528,417.78	2,057,548.56	39° 59' 49.009 N	109° 30' 38.337 W
5,125.00	1.06	174.92	5,081.09	-510.55	-73.55	14,528,415.99	2,057,549.06	39° 59' 48.992 N	109° 30' 38.331 W
5,219.00	1.16	173.94	5,175.07	-512.36	-73.38	14,528,414.18	2,057,549.27	39° 59' 48.974 N	109° 30' 38.329 W
5,314.00	0.53	57.23	5,270.06	-513.08	-72.91	14,528,413.47	2,057,549.75	39° 59' 48.967 N	109° 30' 38.323 W
5,408.00	0.24	83.51	5,364.06	-512.82	-72.35	14,528,413.74	2,057,550.31	39° 59' 48.969 N	109° 30' 38.316 W
5,502.00	0.03	359.07	5,458.06	-512.78	-72.15	14,528,413.79	2,057,550.50	39° 59' 48.970 N	109° 30' 38.313 W
5,597.00	0.18	219.74	5,553.06	-512.87	-72.25	14,528,413.70	2,057,550.41	39° 59' 48.969 N	109° 30' 38.314 W
5,691.00	1.41	144.69	5,647.05	-513.92	-71.67	14,528,412.65	2,057,551.00	39° 59' 48.958 N	109° 30' 38.307 W
5,785.00	1.23	149.70	5,741.02	-515.74	-70.49	14,528,410.85	2,057,552.21	39° 59' 48.940 N	109° 30' 38.292 W
5,880.00	1.41	147.59	5,836.00	-517.61	-69.35	14,528,409.01	2,057,553.38	39° 59' 48.922 N	109° 30' 38.277 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35A Pad
Well: NBU 921-35A4CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35A4CS
TVD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
MD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,974.00	1.41	159.01	5,929.97	-519.66	-68.32	14,528,406.97	2,057,554.45	39° 59' 48.902 N	109° 30' 38.264 W
6,069.00	1.67	148.38	6,024.94	-521.93	-67.17	14,528,404.72	2,057,555.63	39° 59' 48.879 N	109° 30' 38.249 W
6,163.00	0.62	144.07	6,118.92	-523.51	-66.16	14,528,403.16	2,057,556.67	39° 59' 48.864 N	109° 30' 38.236 W
6,257.00	0.70	144.86	6,212.91	-524.39	-65.53	14,528,402.29	2,057,557.32	39° 59' 48.855 N	109° 30' 38.228 W
6,351.00	0.70	143.63	6,306.90	-525.32	-64.86	14,528,401.37	2,057,558.00	39° 59' 48.846 N	109° 30' 38.219 W
6,446.00	0.97	146.88	6,401.89	-526.46	-64.07	14,528,400.24	2,057,558.80	39° 59' 48.834 N	109° 30' 38.209 W
6,540.00	1.14	143.46	6,495.88	-527.88	-63.08	14,528,398.84	2,057,559.82	39° 59' 48.820 N	109° 30' 38.197 W
6,635.00	1.14	143.10	6,590.86	-529.40	-61.95	14,528,397.34	2,057,560.98	39° 59' 48.805 N	109° 30' 38.182 W
6,729.00	0.18	71.65	6,684.85	-530.10	-61.25	14,528,396.65	2,057,561.69	39° 59' 48.799 N	109° 30' 38.173 W
6,823.00	0.26	101.97	6,778.85	-530.10	-60.90	14,528,396.66	2,057,562.04	39° 59' 48.799 N	109° 30' 38.169 W
6,917.00	0.26	124.21	6,872.85	-530.26	-60.52	14,528,396.50	2,057,562.42	39° 59' 48.797 N	109° 30' 38.164 W
7,012.00	0.53	136.51	6,967.85	-530.70	-60.04	14,528,396.07	2,057,562.91	39° 59' 48.793 N	109° 30' 38.157 W
7,106.00	0.81	143.16	7,061.84	-531.55	-59.34	14,528,395.23	2,057,563.62	39° 59' 48.784 N	109° 30' 38.148 W
7,201.00	0.62	173.34	7,156.83	-532.59	-58.88	14,528,394.19	2,057,564.10	39° 59' 48.774 N	109° 30' 38.142 W
7,295.00	0.98	172.35	7,250.82	-533.90	-58.71	14,528,392.90	2,057,564.29	39° 59' 48.761 N	109° 30' 38.140 W
7,390.00	1.21	173.66	7,345.81	-535.70	-58.49	14,528,391.10	2,057,564.54	39° 59' 48.743 N	109° 30' 38.138 W
7,484.00	0.03	175.11	7,439.80	-536.71	-58.38	14,528,390.09	2,057,564.67	39° 59' 48.733 N	109° 30' 38.136 W
7,578.00	0.00	171.14	7,533.80	-536.73	-58.38	14,528,390.06	2,057,564.67	39° 59' 48.733 N	109° 30' 38.136 W
7,673.00	0.35	126.82	7,628.80	-536.91	-58.15	14,528,389.89	2,057,564.91	39° 59' 48.731 N	109° 30' 38.133 W
7,767.00	0.53	121.39	7,722.80	-537.31	-57.55	14,528,389.51	2,057,565.51	39° 59' 48.727 N	109° 30' 38.125 W
7,862.00	0.30	331.81	7,817.80	-537.32	-57.29	14,528,389.50	2,057,565.77	39° 59' 48.727 N	109° 30' 38.122 W
7,956.00	0.09	250.15	7,911.79	-537.12	-57.47	14,528,389.69	2,057,565.58	39° 59' 48.729 N	109° 30' 38.124 W
8,050.00	0.47	184.97	8,005.79	-537.53	-57.58	14,528,389.28	2,057,565.49	39° 59' 48.725 N	109° 30' 38.126 W
8,145.00	0.88	194.26	8,100.79	-538.63	-57.79	14,528,388.18	2,057,565.29	39° 59' 48.714 N	109° 30' 38.129 W
8,239.00	1.06	183.62	8,194.77	-540.20	-58.02	14,528,386.61	2,057,565.09	39° 59' 48.699 N	109° 30' 38.132 W
8,334.00	0.44	356.06	8,289.77	-540.71	-58.10	14,528,386.09	2,057,565.01	39° 59' 48.694 N	109° 30' 38.133 W
8,428.00	0.44	1.78	8,383.77	-539.99	-58.12	14,528,386.81	2,057,564.99	39° 59' 48.701 N	109° 30' 38.133 W
8,522.00	0.48	16.00	8,477.76	-539.25	-58.00	14,528,387.56	2,057,565.10	39° 59' 48.708 N	109° 30' 38.131 W
8,616.00	0.53	45.81	8,571.76	-538.57	-57.58	14,528,388.24	2,057,565.50	39° 59' 48.715 N	109° 30' 38.126 W
8,711.00	0.53	58.11	8,666.76	-538.03	-56.89	14,528,388.79	2,057,566.18	39° 59' 48.720 N	109° 30' 38.117 W
8,805.00	0.35	32.89	8,760.75	-537.56	-56.36	14,528,389.27	2,057,566.70	39° 59' 48.725 N	109° 30' 38.110 W
8,899.00	0.26	84.62	8,854.75	-537.30	-56.00	14,528,389.54	2,057,567.06	39° 59' 48.727 N	109° 30' 38.105 W
8,993.00	0.62	117.88	8,948.75	-537.52	-55.33	14,528,389.33	2,057,567.73	39° 59' 48.725 N	109° 30' 38.097 W
9,088.00	0.70	147.50	9,043.74	-538.25	-54.57	14,528,388.62	2,057,568.51	39° 59' 48.718 N	109° 30' 38.087 W
9,182.00	0.94	135.78	9,137.73	-539.28	-53.72	14,528,387.59	2,057,569.37	39° 59' 48.708 N	109° 30' 38.076 W
9,276.00	1.01	166.92	9,231.72	-540.64	-53.00	14,528,386.25	2,057,570.12	39° 59' 48.694 N	109° 30' 38.067 W
9,371.00	0.89	172.81	9,326.71	-542.19	-52.71	14,528,384.70	2,057,570.43	39° 59' 48.679 N	109° 30' 38.063 W
9,465.00	0.79	153.83	9,420.70	-543.50	-52.34	14,528,383.41	2,057,570.83	39° 59' 48.666 N	109° 30' 38.058 W
9,559.00	1.07	136.65	9,514.69	-544.71	-51.45	14,528,382.20	2,057,571.73	39° 59' 48.654 N	109° 30' 38.047 W
9,612.00	1.85	141.61	9,567.67	-545.75	-50.58	14,528,381.18	2,057,572.62	39° 59' 48.644 N	109° 30' 38.036 W
LAST SDI MWD PRODUCTION SURVEY									
9,672.00	1.85	141.61	9,627.64	-547.26	-49.37	14,528,379.69	2,057,573.85	39° 59' 48.629 N	109° 30' 38.020 W
SDI MWD PROJECTION TO TD									

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: NBU 921-35A Pad
Well: NBU 921-35A4CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 921-35A4CS
TVD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
MD Reference: GL 4990 & KB 25' @ 5015.00ft (HP 311)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM5000-RobertS-Local

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
215.00	215.00	-0.12	0.61	FIRST WFT MWD SURFACE SURVEY
2,491.00	2,460.74	-344.06	-54.54	LAST WFT MWD SURFACE SURVEY
2,578.00	2,546.16	-360.27	-57.73	FIRST SDI MWD PRODUCTION SURVEY
9,612.00	9,567.67	-545.75	-50.58	LAST SDI MWD PRODUCTION SURVEY
9,672.00	9,627.64	-547.26	-49.37	SDI MWD PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____